Rocky Flats Environmental Technology Site

Building 776/777 2nd Floor Final Survey Report

Survey Units: 776030

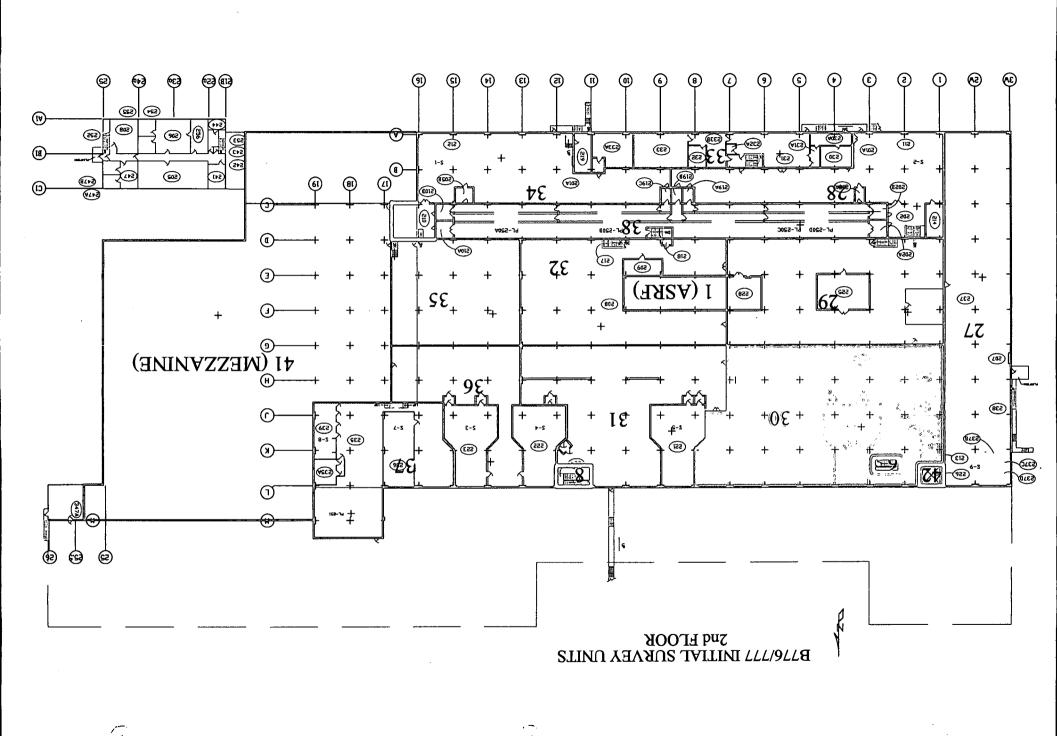
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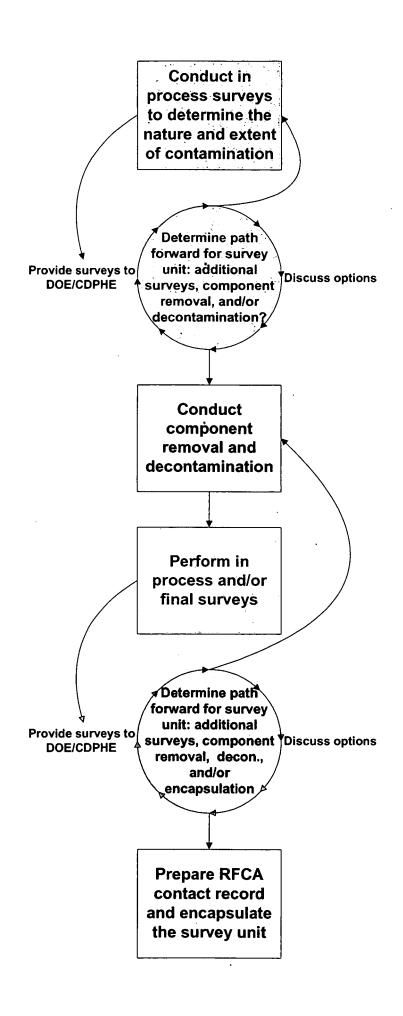
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Survey Instructions Building 776 2nd Floor Survey Unit 776030

Purpose:

This instruction provides guidance for collecting gross gamma and removable contamination data to quantify the amount of residual contamination in Survey Unit 776030 prior to demolition. NaI measurements are performed in accordance with "INS-535-Ludlum2350-1 with Sodium Iodide Detector".

Equipment and materials:

- 1. A Ludlum 44-17 attached to a Ludlum 2350-1 set to collect five-minute counts that will be displayed on its LCD window.
- 2. A Bicron G-5 attached to a Ludlum 2350-1 set to collect five-minute counts that will be displayed on its LCD window.
- 3. One Electra with attached DP-6, calibrated and daily response checked.
- 4. Two probe holders, one for the G-5 and one for the 44-17 with tin shielding.
- 5. Calibrated and daily response checked SAC-4.
- 6. Measuring tape or laser range finder.

Note: The NE Electra with DP-6 probe and the Eberline SAC-4 shall be used in accordance with RSP- 7.01 and 7.02

Procedure:

- 1. Inspect instrument for obvious damage and ensure battery voltage is equal to or greater than 4.6 volts. If battery voltage is less than 4.6 volts change the batteries.
- Complete daily performance checks for Sodium Iodide detectors to ensure the instrument is functioning properly by using Americium-241 source TS-912. Record results on Sodium Iodide Data Sheet.
- 3. For floor and concrete wall background measurements, perform a 300-second background count with a Bicron G-5 for floors or Ludlum 44-17 for walls at background location in room 201-A near column B-13. Record background counts next to "Bkg Floor" or "Bkg Concrete Wall" in background column of attached "Sodium Iodide Data Collection" sheets as needed.
- 4. For block wall background measurements, perform a 300-second background count with a Ludlum 44-17 at the background location at room 219. Record background counts next to "Bkg Block Wall" in background column of attached Sodium Iodide data collection sheets as needed.
- 5. For ceiling and metal floor background measurements, perform a 300-second background count with a Ludlum 44-17 or Bicron G-5 at background location in room 201-A near column B-13. Hold the probe waist high, pointed toward ceiling using a sheet metal plate in front of the detector (take background measurement in this configuration). Record background counts next to "Bkg Metal Floor" for the G-5 and "Bkg Metal Ceiling" for the 44-17 on the attached Sodium Iodide data collection sheets as needed.
- 6. Mark the sample locations on the surfaces to be measured. Take all measurements on contact with the marked surface using tin side shields on the Bicron G-5 and tin side and back shields on the Ludlum 44-17. All Sodium Iodide readings shall have 300 second count times.
- 7. Collect sodium Iodide, total surface activity and removable surface activity measurements at all locations marked on the attached map.
- 8. Record the NaI and NE Electra measurements on the attached sheet. Note any items or conditions that may have affected the measurement in the "remarks" section.
- 9. Count swipes for 60 seconds with a SAC-4, record result on attached sheet for removable contamination.



| Surface | Type of Survey | Probe | Placement | Count Time |
|-------------------------|---------------------------|-------------------------------|---|-------------|
| Floor | Total Alpha Activity | Bicron G-5 | On contact | 300 seconds |
| All Surfaces | Total Alpha Activity | Electra with DP-6 | On contact | 60 seconds |
| Block walls | Total Alpha Activity | Bicron G-5 or Ludlum 44-17 | On contact | 300 seconds |
| All Surfaces | Removable Alpha | SAC-4 | Swipe in placed in tray | 60 seconds |
| Ceiling | Total Alpha Activity | Ludlum 44-17 | On Contact | 300 seconds |
| Block Walls | Background measurement | Bicron G-5 or Ludlum 44-17 | On contact with wall at room 219 | 300 seconds |
| Metal Floors | Background measurement | Bicron G-5 or Ludlum 44-17 | Probe waist high, pointed toward ceiling with sheet metal plate on end in room 201-A near column B-13 | 300 seconds |
| Floors and cement walls | Background measurement | Bicron G-5 or Ludlum 44-17 | On contact with floor in room 201-A near column B-13 | 300 seconds |
| Metal ceilings | Background measurement | Ludlum 44-17 | Probe waist high, pointed toward ceiling with sheet metal plate on end in room 201 near column B-13 | 300 seconds |

2nd Floor Follow-up Survey Instructions for Floors Survey/ Sampling Instructions

Purpose:

To collect gross gamma data to augment data already collected on survey unit 776030 floor. Work to be performed in accordance with "INS-535-Ludlum2350-1 with Sodium Iodide Detector"

Equipment and materials:

- 1) A Ludlum 44-17 Attached to a Ludlum 2350-1 set to collect 1-minute counts that will be displayed on its LCD window.
- 2) A Bicron G-5 Attached to a Ludlum 2350-1 set to collect 1-minute counts that will be displayed on its LCD window.
- 3) HILTI PD 28 Laser range finder or Measuring tape that is at least 10 feet long.
- 4) 2 Probe holders, One for the G-5 and for the 44-17 with tin collimator

Procedure:

- 1) RCT ensure the instrument is functioning by using Americium source TS-912. Obtain one 60 second count at the beginning and end of each workday.
- 2) RCT inspect instrument for obvious damage and perform a battery check on the instrument.
- 3) RCT obtain a 60 second unit specific background measurement 30-cm above the floor near column B-13 on second floor.
- 4) In the highlighted grids on the attached sheet (grid #'s 7, 8, 9, 11, 14, 21, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 49, 50, 51, 60, 62B, 63, 64, 66, 68, 69, 70, 90, 92, 93, 102 and 103) take 60-second readings at 30-cm as near as possible to the original survey location.
- 5) If survey location is above a contaminated crack or seam then note in the remark section. Do not take readings directly over a hole in the floor.
- 6) Document results on Sodium Iodide Data collection Sheets. Write "2nd survey" in the remarks section at the bottom of the data sheet.

2nd Floor

Follow-up Survey Instructions for Ceilings Survey/ Sampling Instructions

Purpose:

To collect gross gamma data to augment data already collected on survey unit 776030 ceiling. Work to be performed in accordance with "INS-535-Ludlum2350-1 with Sodium Iodide Detector"

Equipment and materials:

- 1) A Ludlum 44-17 Attached to a Ludlum 2350-1 set to collect 1-minute counts that will be displayed on its LCD window.
- 2) A Bicron G-5 Attached to a Ludlum 2350-1 set to collect 1-minute counts that will be displayed on its LCD window.
- 3) HILTI PD 28 Laser range finder or Measuring tape that is at least 10 feet long.
- 4) 2 Probe holders, one for the G-5 and one for the 44-17 with tin collimator

Procedure:

- 1) RCT ensure the instrument is functioning by using Americium source TS-912. Obtain one 60 second count at the beginning and end of each workday.
- 2) RCT inspect instrument for obvious damage and perform a battery check on the instrument.
- 3) RCT obtain a 60 second unit specific background measurement near column B-13 on second floor. Point 44-17 towards ceiling with thin metal plate covering the detector end, hold detector waist high and obtain background measurement. Ensure that tin side and back shields cover the detector during measurement.
- 4) In the highlighted grids on the attached sheet take 60-second contact readings as near as possible to the original survey location. Ensure that tin side and back shields are secured around the detector.
- 5) Document results on Sodium Iodide Data collection Sheets. Write "2nd survey" in the remarks section at the bottom of the data sheet.

Note if sample location is near ductwork or other items that may be the source of elevated readings in the remarks section.

1) Introduction and Scope

A pre-demolition radiological survey (PDS) is performed prior to building demolition to define the radiological conditions of a facility. A PDS survey for survey unit 776030 has been completed in accordance with guidelines outlined in the "Radiological Pre-Demolition Survey Plan Building 776/777". Based on the results it is recommended that no further remediation is needed, and that the survey unit may be encapsulated in preparation for demolition. Isolation controls shall be put in place to prevent recontamination of the area. This report has been prepared in accordance with sections 3 and 8 of the "Radiological Pre-Demolition Survey Plan Building 776/777".

Survey unit 776030 is bounded by column line G to the south, column line 1 to the west, column line L to the north, and column lines 7 and 8 on its east side.

2) PDS Methods and Techniques

The PDS survey results determine the Average Surface Contamination Value (ASCV_u) and source term for the survey unit. These parameters are used determine whether the building may be demolished within the limits outlined in the "Radiological Pre-Demolition Survey Plan Building 776/777".

To obtain a statistically powerful number of data points, a minimum of 30 survey points were selected per survey unit. A random start, systematic grid method was used to identify the survey point locations. Three types of surveys are performed at each survey point as follows:

- a) Painted surfaces are evaluated for potential contamination under coatings using sodium iodide (NaI) gamma detectors attached to a single channel analyzer windowed for the 59 keV gamma-ray (Am²⁴¹).
- b) Direct alpha surface contamination measurements are performed using a NE Electra survey instrument with attached DP-6 probe. This data may be compared to the NaI survey data to show the fraction of contamination that is directly on the surface verses imbedded in the material matrix.
- c) Removable surface alpha contamination surveys were performed by swiping the survey point with a 47mm filter paper then counting the filter paper on a SAC-4 alpha counter. This data may be used to gauge the effectiveness of encapsulation following the PDS.

To conservatively determine the final Average Surface Contamination Value ($ASCV_u$) for the survey unit, the source term associated with inaccessible areas of the survey unit (as described in section 4 of this report) is added to the source term calculated by the PDS survey.

3) ALARA Post Remediation Surveys

In addition to the PDS used to determine the Average Surface Contamination Value (ASCV_u) and source term for the survey unit, surveys were taken to determine the effectiveness of

remediation efforts. Remediation is performed to demonstrate a reasonable best effort is made to maintain releases to the environment and doses to the workers ALARA. Remediation may include decontamination, or removal of parts of the structure such as block wall removal.

Data collected during follow-up surveys is illustrated in the "776030 NaI Data" section of this report. Measurements on any surface were collected at a distance of 30 centimeters or on contact with the surface. "On contact" measurements were only collected when it was suspected that shine from the surrounding area was contributing to an elevated reading. By collecting an "on contact" measurement with a collimated probe the influence of shine can be quantified and appropriate correction factors can be used to yield more accurate data.

a) Floors

The floors of survey unit 776030 consist of epoxy covered concrete. In-process measurements collected on the floor of 776030 show that the majority of the floor had elevated activity. 73 of the 103 floor grids were designated to be remediated. Two of the grids (30-20 and 30-21) are kathene damaged and could only be remediated with limited chipping.

Table 1: Floor Remediation Results

| | Pre-Remediation (In-process) | Post-Remediation (Follow-up) |
|-----------------------------------|------------------------------|---------------------------------|
| Maximum (dpm/100cm ²) | 43,962,451 | 2,886,591* |
| Minimum (dpm/100cm ²) | 23,340 | 7,034 |
| Average (dpm/100cm ²) | 1,237,732 | 136,948 |
| Average (μCi/m²) | 55.75 | 6.16 |
| Source Term (μCi) | 52,854.54 | 5,848.05 |

^{*}Maximum post remediation measurement was collected in survey grid 30-44. Follow-up measurement in 30-44 is higher than in-process measurement in 30-44 due to shine from survey unit 776009 floor penetrating through a hole created by removing a process pipe stub that passed through the floor at the survey point location.

b) Walls

Survey measurements on the walls of survey unit 776030 were taken on an established 3 foot by 3 foot grid on each of the 61 wall sections within the unit equaling 747 m². One measurement was collected at the highest point within each 3 foot by 3 foot grid and recorded. A wall section average was derived from the average of all 3 foot by 3 foot grids per wall section.

One wall section (wall 12A) was found to have average contamination values above 100,000 dpm/100cm². Upon further investigation of this wall section the elevated measurements were found to have been caused by shine from contaminated columns at

the ends of the section. No remediation was necessary on this wall section, and the source term due to contaminated columns is found in the "columns" section of this report.

Table 2 B776/777 Survey Unit 776030 - Wall Summary

| Wall | Section | Structural | Initial Characterization | | | Follow-upCharacterization | | |
|-----------|---------|------------|---|----------|----------|--|-------------|--|
| İ | | | Type I | Type II | Type III | Type I | Type II | Type III |
| 776030-1 | Α | Structural | | | | | | |
| 776030-1 | В | | | | | | | |
| 776030-2 | Α | | | | | | | |
| 776030-3 | Α | | ne engele og grede til | | | ally of the state of | | |
| 776030-4 | Α | | 1386 | | | | | |
| 776030-5 | Α | | 13.000 | | | 立河域的社 | | |
| 776030-5 | В | Structural | | | | | | |
| 776030-7 | Α | Structural | randa Bara Afrikan | | | in the state of th | | |
| 776030-7 | В | | | | | | | |
| 776030-7 | B.2 | | 200 | | | | | |
| 776030-8 | Α | | Fig. 35 | | | | | |
| 776030-8 | В | | | _ | | | | |
| 776030-9 | Α | T | "沙鸡儿" | _ | | 1997 | | |
| 776030-9 | В | Structural | | | | - WAG | | |
| 776030-11 | Α | Structural | | | | 是指导的 | | |
| 776030-11 | В | | 1246 | | | 7.5853.70 | | |
| 776030-12 | Α | | | | | 建筑 公司 | | |
| 776030-13 | Α | Structural | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | MARKET ! | | |
| 776030-14 | Α | | के पुरस्कारण के पर प्रकार किस्कू के प्राप्त कर | | | 14 CA CARE | | |
| 776030-15 | Α | | | | | A Late of the | | |
| 776030-15 | В | 1 | | | | 1 | | |
| 776030-16 | Α | | 1 | | | 2018 | | |
| 776030-17 | Α | • | 174.8 | | | A THE STATE OF | | |
| 776030-17 | В | | | | | DOM: | | |
| 776030-18 | Α | | 191 4 (## | · | | | | |
| 776030-20 | Α | | | | | M. Marco | | |
| 776030-22 | A | Structural | | | | 1 | ····· | |
| 776030-23 | Α | | # # # F | | | 15.4 | | |
| 776030-24 | Α | | 4 | | | 4400 | | |
| 776030-25 | Α | | - | | | | | |
| 776030-26 | Α | | 112 (12 A A A A A A A A A A A A A A A A A A A | <u> </u> | | A substitute in | | |
| 776030-27 | Α | Structural | NY P | | | The state of the | | |
| 776030-28 | Α | | : Marie Carlo | | | Sylvani magazini. | | |
| 776030-29 | A | | | | | | | |
| 776030-30 | Α | | | | | | | |
| 776030-31 | Α | | | | | | | |
| 776030-32 | Α | | | | * | | | |
| 776030-33 | Α | | | | | | <u>.</u> | |
| 776030-34 | Α | 1 | | | | | | |
| 776030-35 | A | 1 | 1 1 | | <u> </u> | | | |

| Wall | Section | Structural | Initial Characterization | | | Follow-upCharacterization | | |
|--|-----------|--------------|--|---------|-----------|--|---------|----------|
| | | | Type I | Type II | Type III | Type I | Type II | Type III |
| 776030-35 | Α | | | | | | | |
| 776030-37 | В | | | | | | | |
| 776030-37 | В | | | | | | | |
| 776030-38 | Α | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | | 4422 | | |
| 776030-38 | В | | | | , , , | | | |
| 776030-38 | С | | - () (() () () () () () () () | | | | | |
| 776030-39 | Α | | v/(c) | | | Sign Byles | | |
| 776030-40 | Α | | | | | 100 F | | |
| 776030-41 | Α | | | | | | | |
| 776030-42 | Α | | | | | 4.644.00 | | - |
| 776030-43 | Α | | | | | Committee of the Commit | | |
| 776030-44 | Α | | 3 3 m | | | | | |
| 776030-45 | Α | | | | | 建建筑 | | |
| 776030-46 | Α | | | | | 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | | |
| 776030-47 | Α | | | | | 7 - 31.4 4 14 4 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| 776030-48 | Α | | The second of | | | 4.9 | | |
| 776030-49 | Α | | | | | S are | | |
| 776030-50 | Α | | 1276 F | | | | | |
| 776030-51 | Α | | 1.00 mg (1.00 mg) | | | | | |
| 776030-52 | Α | | 1144 | | | *1968 | | |
| 776030-53 | Α | | Silver | | | 110 18 18 18 | | |
| المعارفة المارية المارية المارية المارية المارية المارية | | | 3 | | | | | |
| Granding and Colored Color, 18 and | Type I: | <100,000 dpn | | | | | | |
| | Type II: | >100,000 dpn | | | 00 dpm/10 | 0cm² | _ | |
| | Type III: | >1,000,000 d | om/100cm ² | | | | | |

Table 3
B776/777 Survey Unit 776030- Wall Source Term

| Wall | Wall | Area | Pre Average | Post Average | Total Activity | Total Activity |
|--------------------------------|--|------|------------------|--------------|----------------|----------------|
| Designation | Туре | (m2) | dpm/100cm2 | dpm/100cm2 | (uCi) | (uCi) |
| 776030-1A | | 18 | 40,511 | 40,511 | 32.8 | 32.8 |
| 776030-1B | <u> </u> | 9 | 37,879 | 37,879 | 15.4 | 15.4 |
| 776030-2A | | 12 | 47,032 | 47,032 | 25.4 | 25.4 |
| 776030-3A | | 20 | 39,871 | 39,871 | 35.9 | 35.9 |
| 776030-4A | | 8 | 39,215 | 39,215 | 14.1 | 14.1 |
| 776030-5A | 1 | 4 | 23,941 | 23,941 | 4.3 | 4.3 |
| 776030-5B | 1 | 8 | 19,476 | 19,476 | 7 | 7 |
| 776030-7A | | 21 | 24,620 | 24,620 | 23.3 | 23.3 |
| 776030-7B | 1 | 24 | 31,966 | 31,966 | 34.6 | 34.6 |
| 776030-7B.2 | 1 | 12 | 45,749 | 45,749 | 24.7 | 24.7 |
| 776030-8A | 1 | 12 | 32,675 | 32,675 | 17.7 | 17.7 |
| 776030-8B | | 19 | 43,083 | 43,083 | 36.9 | 36.9 |
| 776030-9A | | 24 | 72,036 | 72,036 | 77.9 | 77.9 |
| 776030-9B | 1 | 18 | 30,959 | 30,959 | 25.1 | 25.1 |
| 776030-11A | l | 16 | 12,715 | 12,715 | 9.2 | 9.2 |
| 776030-11B | ı | 24 | 67,508 | 67,508 | 73 | - 73 |
| 776030-12A | - 1 | 9 | 125,559 | 45,453 | 50.9 | 18.4 |
| 776030-13A | ı | 24 | 78,079 | 78,079 | 84.4 | 84.4 |
| 776030-14A | ı | 24 | 30,644 | 30,644 | 33.1 | 33.1 |
| 776030-15A | 1 | 24 | 47,705 | 47,705 | 51.6 | 51.6 |
| 776030-15B | 1 | 13 | 61,179 | 61,179 | 35.8 | 35.8 |
| 776030-16A | i | 24 | 61,296 | 61,296 | 66.3 | 66.3 |
| 776030-17A | Ī | 13 | 62,852 | 62,852 | 36.8 | 36.8 |
| 776030-17B | Ī | 22 | 48,278 | 48,278 | 47.8 | 47.8 |
| 776030-18A | i | 21 | 42,692 | 42,692 | 40.4 | 40.4 |
| 776030-20A | İl | 12 | 150,568 | 80,475 | 81.4 | 43.5 |
| 776030-22A | 1 | 24 | 50,265 | 50,265 | 54.3 | 54.3 |
| 776030-23A | 1 | 2 | 8,349 | 8,349 | 0.8 | 0.8 |
| 776030-24 A | 1 | 4 | 24,083 | 24,083 | 4.3 | 4.3 |
| 776030-25A | ī | 4 | 68,643 | 68,643 | 12.4 | 12.4 |
| 776030-26A | - 1 | 2 | 31,469 | 31,469 | 2.8 | 2.8 |
| 776030-27A | | 12 | 36,820 | 36,820 | 19.9 | 19.9 |
| 776030-28A | 1 | 6 | 51,163 | 51,163 | 13.8 | 13.8 |
| 776030-29A | i | 4 | 28,257 | 28,257 | 5.1 | 5.1 |
| 776030-30A | i | 24 | 35,054 | 35,054 | 37.9 | 37.9 |
| 776030-31A | i | 8 | 44,828 | 44,828 | 16.2 | 16.2 |
| 776030-31A | l i | 12 | 24,917 | 24,917 | 13.5 | 13.5 |
| 776030-32A | | 8 | 35,231 | 35,231 | 12.7 | 12.7 |
| 776030-33A | <u> </u> | 16 | 32,438 | 32,438 | 23.4 | 23.4 |
| 776030-34A 776030-35A | + - ; | 24 | 47,275 | 47,275 | 51.1 | 51.1 |
| 776030-35A cent. | | 8 | 41,475 | 41,475 | 14.9 | 14.9 |
| | | 24 | 48,387 | 48,387 | 52.3 | 52.3 |
| 776030-37B 776030-37B cent. | 1 1 | | | 29,728 | 10.7 | 10.7 |
| 776030-376 Cent. | | 8 | 29,728 11,257 | 11,257 | 3 | 3 |

| 344.11 | 347-11 | | D A | D 1 A 1 | Takal Aakhaka | Takal Askinika |
|-------------|--------|--------|-------------|--------------|----------------|----------------|
| Wall | Wall | Area | Pre Average | Post Average | Total Activity | Total Activity |
| Designation | Type | . (m2) | dpm/100cm2 | dpm/100cm2 | (uCi) | (uCi) |
| 776030-38B | 1 | 20 | 32,515 | 32,515 | 29.3 | 29.3 |
| 776030-38C | ı | 8 | 17,603 | 17,603 | 6.3 | 6.3 |
| 776030-39A | | 6 | 23,321 | 23,321 | 6.3 | 6.3 |
| 776030-40A | ı | 6 | 28,030 | 28,030 | 7.6 | 7.6 |
| 776030-41A | 1 | 7 | 17,565 | 17,565 | 5.5 | 5.5 |
| 776030-42A | 1 | 3 | 56,626 | 56,626 | 7.7 | 7.7 |
| 776030-43A | 1 | 6 | 31,941 | 31,941 | 8.6 | 8.6 |
| 776030-44A | I | 7 | 19,181 | 19,181 | 6 | 6 |
| 776030-45A | I | 6 | 28,270 | 28,270 | 7.6 | 7.6 |
| 776030-46A | 1 | 6 | 48,725 | 48,725 | 13.2 | 13.2 |
| 776030-47A | 1 | 6 | 40,024 | 40,024 | 10.8 | 10.8 |
| 776030-48A | 1 | 6 | 31,323 | 31,323 | 8.5 | 8.5 |
| 776030-49A | 1 | 6 | 38,091 | 38,091 | 10.3 | 10.3 |
| 776030-50A | 1 | 6 | 32,290 | 32,290 | 8.7 | 8.7 |
| 776030-51A | ı | 6 | 40,411 | 40,411 | 10.9 | 10.9 |
| 776030-52A | ı | 6 | 31,710 | 31,710 | 8.6 | 8.6 |
| 776030-53A | 1 | 5 | 52,902 | 52,902 | 11.9 | 11.9 |
| Totals | | 747 | 44,663 | 39,148 | 1502.7 | 1,432.3 |

Table 4: Wall Remediation Results

| | Pre-Remediation (In-process) | Post-Remediation (follow-up) |
|-----------------------------------|------------------------------|------------------------------|
| Maximum (dpm/100cm ²) | 150,568 | 80,475 |
| Minimum (dpm/100cm ²) | 8,349 | 8,349 |
| Average (dpm/100cm ²) | 41,611 | 39,148 |
| Average (μCi/m²) | 1.87 | 1.7634441 |
| Source Term (μCi) | 1,502.7 | 1,470.2 |

c) Ceilings

The ceiling of survey unit 776030 contained three grids (30-120, 30-137 and 30-139) with elevated contamination levels as characterized during the in-process survey. Several grid areas (30-169 through 30-172, 30-193 through 30-196 and 30-198) had the ceiling surface removed entirely before the in-process survey was performed. An additional piece of ceiling surface (30-20) was removed after the in-process survey determined that a contaminated structural beam in the ceiling above the panel had to be removed. A summary and comparison of in-process and follow-up data is provided below in table 5.

Table 5: Ceiling Remediation Results

| | Pre-Remediation (In-process) | Post-Remediation (follow-up) |
|-----------------------------------|------------------------------|------------------------------|
| Maximum (dpm/100cm ²) | 352,863.16 | 125,021 |
| Minimum (dpm/100cm ²) | 3,434.46 | 3,434 |
| Average (dpm/100cm ²) | 16,630.04 | 12,999 |
| Average (μCi/m²) | 0.75 | 0.59 |
| Source Term (μCi) | 710.15 | 555.09 |

d) Columns

Fixed contamination that was not identified during the in-process survey was measured on several columns in survey unit 776030. The contamination is characterized as a strip of contamination approximately one inch wide running several feet vertically on the center of the column. No remediation was performed on the columns due to the structural load on the columns. Data from the columns is summarized in table 6.

Table 6: Column Contamination Levels

| | Average Contamination Levels |
|-----------------------------------|------------------------------------|
| Maximum (dpm/100cm ²) | 6,850,252 |
| Minimum (dpm/100cm ²) | 6,907 |
| Average (dpm/100cm ²) | 1,898,672 |
| Average (μCi/m²) | 85.53 |
| Source Term (µCi) | 846.70 |

4) Inaccessible Areas

a) Floors

Approximately one hundred seventy linear feet of contaminated cracks and expansion joints were identified in survey unit 776030 after floor shaving was completed. The average contamination of these cracks on the surface before remediation was 13,160,281 dpm/100cm². Only limited remediation was possible (to a depth of 2") to maintain the structural stability of the floor. Measurements collected after crack remediation indicate average contamination levels in the cracks to be 376,212 dpm/100cm². These levels indicate a decontamination factor (DF) of 34.98, or a source term reduction of 97%.

In addition to the inaccessible cracks and expansion joints on the floor of 776030, there exist one large area classified as a kathene damaged area. Kathene damaged areas are inaccessible to shaving due the corrosive effect that the kathene has had on the concrete and the resulting structural instability of the concrete. Minor remediation was carried out by chipping thin layers from the kathene damaged surface. The average contamination of

the area before remediation was 614,263 dpm/100cm². Average contamination levels after remediation were reduced to 123,690 dpm/100cm². These levels indicate a decontamination factor (DF) of 4.97, or a source term reduction of 80%.

b) Walls

No inaccessible areas were identified on the walls of survey unit 776030.

c) Ceilings

No inaccessible areas were identified on the ceiling of survey unit 776030.

Table 7: Inaccessible Area Source Term Summary

| | Pre-Remediation (In-process) ** | Post-Remediation |
|--|---------------------------------|------------------|
| Seam/Crack Maximum (dpm/100cm²) | 26,204,915 | 737,256 |
| Seam/Crack Minimum (dpm/100cm ²) | 115,648 | 15,167 |
| Seam/Crack Average (dpm/100cm²) | 13,160,282 | 376,212 |
| Seam/Crack Average (µCi/m²) | 592.81 | 16.95 |
| Seam/Crack Source Term (μCi) | 2,570.01 | 73.47 |
| DF | - | 35 |
| Source Term Reduction (%) | - | 97.14 |
| Kathana Araa Maximum (dam/100am²) | 1 906 021 00 | 191,941.00 |
| Kathene Area Maximum (dpm/100cm²) | 1,896,921.00 | |
| Kathene Area Minimum (dpm/100cm²) | 55,438.00 | 55,438.00 |
| Kathene Area Average (dpm/100cm²) | 614,263.50 | 123,689.50 |
| Kathene Area Average (μCi/m²) | 27.67 | 5.57 |
| Kathene Area Source Term (μCi) | 1,028.20 | 207.04 |
| DF | - | 4.97 |
| Source Term Reduction (%) | - | 79.86 |
| Total Source Term (μCi) | 3,598.21 | 177.00 |
| Total DF | • | 20.33 |
| Total Source term Reduction (%) | • | 95.1 |
| | | |

^{**-} Includes all activity from cracks, expansion joints, and seams not accounted for in the In-Process Survey

5.) PDS Survey Results Summary

The values for the accessible areas and inaccessible areas were summed and divided by the total area for the survey unit to calculate the "Average Surface Contamination Value" (ASCV_u) and source term for the survey unit. The results are summarized in Table 8 below:

Table 8: PDS Final Results

| | Final Results |
|---|---------------|
| 776030 Source Term Inaccessible Areas (μCi) | 177.0 |
| 776030 Source Term Accessible Areas (μCi) | 4,379.2 |
| 776030 Total Source Term (μCi) | 4,556.2 |
| Survey Unit Area (m²) | 3,008 |
| ASCV _u (μCi/m²) | 1.51 |
| ASCV _u (dpm/100cm ²) | 33,627 |

Table 8 Notes:

- a) Inaccessible areas source term from Section 4 of this report.
- b) Accessible area source term is the sum of source terms attributed to floors, walls, ceiling and columns as determined by the final PDS survey.
- c) Total Source Term equals the sums of the source terms of Inaccessible Area + Accessible Area. Total Source Term = $(177.0 + 4,379.2) \mu Ci = 4,556.2 \mu Ci$
- d) Average Surface Contamination for the Survey Unit (ASCV_u) in dpm/100cm² equals: $ASCV_u = (4,556.2 \ \mu\text{Ci})(22,200 \ \text{dpm}/100\text{cm}^2 / 1 \ \mu\text{Ci/m}^2) / 3,008 \ \text{m}^2) = 33,627 \ \text{dpm}/100\text{cm}^2$

776030 Follow-up Nal results

| | 1 | <u> </u> | | | p ital result | T | pre | post |
|--------------|--------|----------|---------|------|---------------|--------|-------------|---|
| , | Column | Column | | | | Gross | remediation | remediation |
|) Location # | letter | Number | North | East | Surface | Counts | dpm/100cm2 | dpm/100cm2 |
| 30-1 | K | 1 | 19 | 19 | FLOOR | 1200 | 25,197 | 25,197 |
| 30-2 | K | 2 | 12 | 5 | FLOOR | 1339 | 39,730 | 39,730 |
| 30-3 | K | 2 | 12 | 18 | FLOOR | 1341 | 47,362 | 32,557 |
| 30-4 | K | 3 | 19 | 7 | FLOOR | 2248 | no data | 89,720 |
| 30-5 | K | 4 | 12 | 7 | FLOOR | 750 | 160,423 | 10,923 |
| 30-6 | K | 4 | 13. | 13 | FLOOR | 1485 | 47,780 | 47,780 |
| 30-7 | K | 4 | 11 | 19 | FLOOR | 2123 | no data | 29,812 |
| 30-8 | K | 5 | 19 | 1 | FLOOR | 1997 | no data | 17/887 |
| 30-9 | K | 5 | 11 | 19 | FLOOR | 2213 | 2,340,152 | 1:248,825 |
| 30-10 | K | 6 | 12 | 9 | FLOOR | 1377 | 2,062,329 | 59:040 E |
| 30-11 | K | 6 | 12 | 12 | FLOOR | 1594 | 2,419,579 | 242,438 |
| 30-12 | J | 6 | 11 | 2 | FLOOR | 929 | 246,116 | 10,923 |
| 30-13 | K | 7 | 16 | 11 | FLOOR | 1169 | 155,894 | |
| 30-14 | K | . 7 | 5 | 12 | . FLOOR | 2212 | 120,535 | 38/235 |
| 30-15 | K | 6 | 2 | 1 | FLOOR | 6084 | 969,095 | 5341046 |
| 30-16 | K | 6 | 6 | 9 | FLOOR | 2544 | 882,421 | 190/243 |
| 30-17 | K | 6 | 1 | 9 | FLOOR | 3765 | 755,084 | 340,702 |
| 30-18 | K | 5 | 5 | 17 | FLOOR | 2419 | no data | 92,078 |
| 30-19 | K | 5 | 2 | 3 | FLOOR | 3061 | 54,054 | 265,699 |
| 30-20 | K | 4 | 9 | 19 | FLOOR | 6144 | 37,952 | 398,353 |
| 30-21 | К | 4 | 3 | 5 | FLOOR | 3474 | 2,266,379 | 16/A67/28 |
| 30-22 | | IN | ACCESIB | LE | FLOOR | | 6,786,004 | inaccessible |
| 30-23 | | · IN | ACCESIB | LE | FLOOR | | 2,159,872 | Maccessie et |
| 30-24 | К | 2 | 3 | 17 | FLOOR | 1861 | 599,887 | 8470 |
| 30-25 | K | 2 | 10 | 2 | FLOOR | 1511 | 2,046,506 | MANUSEZ (MIN |
| 30-26 | K | 1 | 10 | 11 | FLOOR | 1517 | 465,885 | 200 0000000000000000000000000000000000 |
| 30-27 | К | 1 | 8 | 8 | FLOOR | 1617 | 899,568 | AND SECOND |
| 30-28 | K | 1 | 1 | 8 | FLOOR | 1353 | 608,390 | 251 |
| 30-29 | K | 1 | 4 | 12 | FLOOR | 1486 | 1,184,272 | 100 5/40 5/40 to |
| 30-30 | J | 2 | 12 | 2 | FLOOR | 1220 | 291,583 | |
| 30-31 | J | 2 | 13 | 12 | FLOOR | 1392 | 931,880 | |
| 30-32 | J | 3 | 17 | 17 | FLOOR | 1243 | 8,562,830 | |
| 30-33 | J | 2 | 18 | 19 | FLOOR | 1322 | 984,150 | |
| 30-34 | J | 4 | 13 | 4 | FLOOR | 2034 | 43,962,452 | |
| 30-35 | J | 4 | 18 | 17 | FLOOR | 9252 | 3,918,828 | STAR LEE |
| 30-36 | J | 5 | 19 | 7 | FLOOR | 4840 | 2,169,146 | |
| 30-37 | J | 5 | 13 | 19 | FLOOR | 3236 | 1,794,436 | |
| 30-38 | J | 6 | 19 | 4 | FLOOR | 1104 | 2,639,921 | A 10 1 10 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 30-39 | J | 6 | 18 | 19 | FLOOR | 16488 | no data | 927,609 |
| 30-40 | J | 7 | 11 | 3 | FLOOR | 2042 | no data | 315,268 |
| 30-41 | J | 7 | 13 | 12 | FLOOR | 2218 | 141,263 | 67,716 |
| 30-42 | J | 7 | 9 | 12 | FLOOR | 2381 | 34,488 | 63,504 |
| 30-43 | J | 7 | 1 | 1 | FLOOR | 5130 | 55,913 | 649,274 |

776030 Follow-up Nal results

| , | Calvana | Calvara | | , <u>.</u> | | | pre | post |
|------------|------------------|------------------|-------|------------|---------|-----------------|------------------------|------------------------------|
| Location # | Column letter | Column Number | North | East | Surfaçe | Gross Counts | remediation dpm/100cm2 | remediation dpm/100cm2 |
| 30-44 | J | 6 | 1 | 19 | FLOOR | 5022 | 38,893 | 2,886,591 |
| 30-44 | J | 6 | 1 | 1 | FLOOR | 2511 | | 57,295 |
| 30-46 | J | 5 | 4 | 20 | FLOOR | 3020 | no data | |
| 30-47 | J | 5 | 4 | 4 | | | 80,995 | 99,261 |
| | | | | | FLOOR | 3296 | 1,992,656 | 140,826 |
| 30-48 | J | 4 | 13 | 10 | FLOOR | 1452 | 137,605 | 32,935 |
| 30-49 | J | 4 | 8 | 7 | FLOOR | 3527 | 3,599,322 | 12,055 |
| 30-50 | J | 3 | 5 | 19 | FLOOR | 3895 | 204,191 | # 197676 |
| 30-51 | J | 3 | 9 | 6 | FLOOR | 2355 | no data | 5177694 |
| 30-52 | J | 2 | 4 | 18 | FLOOR | 1235 | 1,003,493 | 200584 |
| 30-53 | J | 2 | 9 | 0 | FLOOR | 1531 | 1,619,933 | 82.117 |
| 30-54 | J | 1 | 8 | 15 | FLOOR | 1307 | 29,588 | 34,488 |
| 30-55 | J | 1 | 5 | 8 | FLOOR | 1370 | 850,711 | 45,462 |
| 30-56 | H | 1. | 18 | 5 | FLOOR | 1430 | 911,327 | A 55 943 T |
| 30-57 | H | 1 | 18 | 13 | FLOOR | 1421 | 330,490 | 2 454 54 54 54 A |
| 30-58 | Н | 2 | 19 | 9 | FLOOR | 1341 | 295,589 | % 788 8 93 % i |
| 30-59 | H | 2 | 11 | 13 | FLOOR | 1132_ | 344,918 | 23104 |
| 30-60 | J | 3 | 1 | 3 | FLOOR | 1654 | 110,930 | 12874331 |
| 30-61 | J | 1 | 1 | 19 | FLOOR | 1138 | no data | 1 297374 |
| 30-62 | J | 4 | 2 | 2 | FLOOR | 1125 | no data | 194321295 |
| 30-63 | Н | . 4 | 19 | 19 | FLOOR | 2772 | 93,261 | 91,234 |
| 30-64 | Н | 5 | 13 | 2 | FLOOR | 2418 | 141,263 | 239,538 |
| 30-65 | H | 5 | 19 | 19 | FLOOR | 2233 | 157,287 | 14324016- |
| 30-66 | Н | 6 | 19 | 11 | FLOOR | 4033 | no data | 198,564 |
| 30-67 | <u>H</u> . | 6 | 13 | 13 | FLOOR | 1004 | 454,489 | 404 8 985 |
| 30-68 | Н | 6 | 1 | 19 | FLOOR | 4445 | 48,075 | 249,569 |
| 30-69 | H | 6 | 1 | 1 | FLOOR | 3324 | 66,286 | 142,520 |
| 30-70 | Н | 5 | 1 | 19 | FLOOR | 2591 | 181,607 | * 15 M846 M 5 |
| 30-71 | Н | 5 | 3 | 2 | FLOOR | 1253 | 1,237,733 | * 42 1862 W |
| 30-72 | Н | 4 | 8 | 13 | FLOOR | 1299 | no data | 26,216 |
| 30-73 | H | 4 | 10 | 3 | FLOOR | 1859 | 16,607 | 79,215 |
| 30-74 | H | 3 | 8 | 12 | FLOOR | 1186 | 7,468 | 15,521 |
| 30-75 | Н | 3 | 8 | 3 | FLOOR | 1136 | 7,468 | 10,789 |
| 30-76 | Н | 2 | 6 | 19 | FLOOR | 1013 | 4,044 | 7,034 |
| 30-77 | Н | 2 | 4. | 8 | FLOOR | 1137 | 4,012 | 10,884 |
| 30-78 | Н | 1 | 15 | 19 | FLOOR | 1618 | 13,378 | 58,772 |
| 30-79 | Н | 1 | 7 | 7 | FLOOR | 1917 | 13,378 | 87,070 |
| 30-80 | G | 1 | 14 | 3 | FLOOR | 2021 | 13,378 | 96,913 |
| 30-81 | G | 1 | 18 | 19 | FLOOR | 1742 | 13,378 | 70,508 |
| 30-82 | G | 2 | 13 | 2 | FLOOR | 1336 | 13,378 | 29,717 |
| 30-83 | G | . 2 | 18 | 11 | FLOOR | 1022 | 15,064 | 7,034 |
| 30-84 | G | 3 | 18 | 9 | FLOOR | 1069 | 15,064 | 7,034 |
| 30-85 | G | 3 | 12 | 18 | FLOOR | 1085 | 15,064 | 7,034 |
| 30-86 | G | 4 | 20 | 1 | FLOOR | 1465 | 15,064 | 45,689 |

776030 Follow-up Nal results

| | , <u> </u> | | - | | p ital result | | pre | post |
|-----------------|------------|-------------|--------------|------|---------------|--------|-------------|-------------|
| Ţ | Column | Column | | | | Gross | remediation | remediation |
| Location # | letter | Number | North | East | Surface | Counts | dpm/100cm2 | dpm/100cm2 |
| 30-87 | G | 4 | 19 | 19 | FLOOR | 1204 | 15,064 | 17,225 |
| 30-88 | G | 5 | 19 | 8 | FLOOR | 1984 | 15,064 | 91,045 |
| 30-89 | G | 5 | 16 | 14 | FLOOR | 1034 | 352,863 | 7,034 |
| 30-90 | F | 5 | 19 | 1 | FLOOR | 1767 | 13,378 | 9,356 |
| 30-90A | F | 5 | 19 | 1 | FLOOR | 1259 | 13,378 | 9,356 |
| 30-91 | G | 6 | 18 | 19 | FLOOR | 12566 | 13,378 | 363,068 |
| 30-92 | G | 6 | 10 | 18 | FLOOR | 2786 | 13,799 | 92,559 |
| 30-93 | F | 5 | 1_ | 1 | FLOOR | 2158 | 16,607 | 25,317 |
| 30-94 | G | 5 | 5 | 13 | FLOOR | 1240 | 9,068 | 20,632 |
| 30-95 | G | 5 | 6 | 2 | FLOOR | 1122 | 16,607 | 9,464 |
| 30-96 | G | 4 | 2 | 13 | FLOOR | 885 | 8,781 | 7,034 |
| 30-97 | G | 4 | 2 | 3 | FLOOR | 885 | 16,607 | 7,034 |
| 30-98 | G | 3 | 3 | 12 | FLOOR | 1195 | 5,185 | 48,075 |
| 30-99 | G | 3 | 8 | 5 | FLOOR | 977 | 4,012 | 7,034 |
| 30-100 | G | 2 | 3 | 11 | FLOOR | 1037 | 5,611 | 7,034 |
| 30-101 | G | 2 | 4 | 8 | FLOOR | 1116 | 6,976 | 8,896 |
| 30-102 | G | 1 | 10 | 4 | FLOOR | 3223 | 125,021 | 133,917 |
| 30-103 | G | 1 | 7 | 2 | FLOOR | 2539 | 13,378 | 69,183 |
| 30-104 | K | 1 | 17 | 16 | CEILING | 77 | 13,378 | 16,607 |
| 30-105 | K | 2 | 6 | 1 | CEILING | 70 | 15,064 | 7,468 |
| 30-106 | K | 2 | 13 | 18 | CEILING | 75 | 15,064 | 7,468 |
| <u>/</u> 30-107 | K | 3 | 15 | 88 | CEILING | 24 | 15,064 | 4,044 |
| 30-108 | K | 3 | 15 | 15 | CEILING | 38 | 15,064 | 4,012 |
| 30-109 | K | 4 | 16 | 5 | CEILING | 69 | 15,064 | 13,378 |
| 30-110 | K | 4 | 15 | 12 | CEILING | _55 | 15,064 | 13,378 |
| 30-111 | K | 5 | 17 | 4 | CEILING | 76 | 15,064 | 13,378 |
| 30-112 | _ K | 5 | 17 | 16 | CEILING | 69 | 15,064 | 13,378 |
| 30-113 | K | 6 | 15 | 4 | CEILING | 57 | 15,064 | 13,378 |
| 30-114 | K | 6 | 13 | 15 | CEILING | 63 | 13,378 | 15,064 |
| 30-115 | K | 7 . | 13 | 88 | CEILING | 56 | 13,378 | 15,064 |
| 30-116 | K | 7 | 12 | 12 | CEILING | 48 | 24,703 | 15,064 |
| 30-117 | K | 7 | 9 | 11 | CEILING | 73 | 5,101 | 15,064 |
| 30-118 | K | 7 | 6 | 1 | CEILING | 81 | 3,980 | 15,064 |
| 30-119 | К | 6 | 8 | 18 | CEILING | 118 | 3,948 | 15,064 |
| 30-120 | K | 6 | 5 | 5 | CEILING | 701 | 3,434 | removed |
| 30-121 | K | 5 | 7 | 8 | CEILING | 73 | 16,607 | 13,378 |
| 30-122 | K | 5 | 7 | 2 | CEILING | 63 | 16,607 | 13,378 |
| 30-123 | K | 4 | 88 | 13 | CEILING | 63 | 16,607 | 13,378 |
| 30-124 | K | 4 | 2 | 1 | CEILING | 82 | no data | 13,378 |
| 30-125 | K | 3 | 7 | 18 | CEILING | 30 | 16,607 | 4,044 |
| 30-126 | K | 3 | 8 | 8 | CEILING | 41 | 16,607 | 4,012 |
| 30-127 | K | 2 | 5 | 17 | CEILING | 69 | 16,607 | 7,468 |
| 30-128 | K | 2 | 6 | 1 | CEILING | 92 | 16,607 | 13,799 |

776030 Follow-up Nal results

| | | | - | | - | I | pre | post |
|------------|--------|--------|-------|------|---------|--------|-------------|--------------------|
| | Column | Column | | | | Gross | remediation | remediation |
| Location # | letter | Number | North | East | Surface | Counts | dpm/100cm2 | dpm/100cm2 |
| 30-129 | K | 11 | 8 | 17 | CEILING | 82 | 9,454 | 16,607 |
| 30-130 | K | 1 | 5 | 6 | CEILING | 87 | no data | 11,708 |
| 30-131 | K | 1 | 5 | 6 | CEILING | 87 | 4,078 | 9,068 |
| 30-132 | J | 1 | 8 | 18 | CEILING | 89 | 4,078 | 16,607 |
| 30-133 | J | 2 | 19 | 7 | CEILING | 80 | 4,078 | 8,781 |
| 30-134 | J | 2 | 11 | 9 | CEILING | 76 | 4,078 | 16,607 |
| 30-134A | J | 2 | 17 | 16 | CEILING | 49 | 8,992 | 5,185 |
| 30-135 | J | 3 | 16 | 5 | CEILING | 32 | 4,651 | 4,012 |
| 30-136 | J | 3 | 16 | 12 | CEILING | 51 | 9,575 | 5,611 |
| 30-137 | J | 4 | 16 | 3 | CEILING | 56 | 7,468 | 6,976 |
| 30-137A | J | 4 | 17 | 6 | CEILING | 311 | 7,468 | 125,021 |
| 30-138 | J | 4 | 11 | 17 | CEILING | 109 | no data | 13,378 |
| 30-139 | J | 5 | 14 | 2 | CEILING | 216 | no data | 69,521 |
| 30-140 | J | 5 | 16 | 16 | CEILING | 117 | no data | 13 378 |
| 30-141 | J | 6 | 17 | 4 | CEILING | 125 | no data | 15,064 |
| 30-142 | J | 6 | 14 | 14 | CEILING | 145 | 7,468 | 15,064 |
| 30-143 | J | 7 | 12 | 5 | CEILING | 91 | no data | 15;064 |
| 30-144 | J | 7 | 17 | 12 | CEILING | 75 | no data | 15,064 |
| 30-145 | J | 7 | 2 | 12 | CEILING | 99 | 21,326 | 15,064 |
| 30-146 | J | 7 | 1 | 8 | CEILING | 117 | 11,290 | 15,064 |
| 30-147 | J | 6 | 2 | 18 | CEILING | 111 | 7,468 | 15,064 |
| 30-148 | J | 6 | 5 | 8 | CEILING | 111 | 7,468 | 15,064 |
| 30-149 | J | 5 | 3 | 5 | CEILING | 49 | 7,468 | 15,064 |
| 30-150 | J | 5 | 1 | 3 | CEILING | 112 | 12,963 | 13,378 |
| 30-151 | J | 4 | 3 | 14 | CEILING | 74 | 7,527 | 13,378 |
| 30-152 | J | 4 | 15 | 8 | CEILING | 113 | 10,872 | 24,703 |
| 30-152A | J | 4 | 8 | 3 | CEILING | 49 | 7,468 | 5,101 |
| 30-153 | j | 3 | 8 | 17 | CEILING | 32 | 16,607 | 3,980 |
| 30-154 | J | 3 | 9 | 5 | CEILING | 45 | 16,607 | 3,948 |
| 30-155 | J | 2 | 8 | 17 | CEILING | 35 | 13,378 | 3,434 |
| 30-155A | J | 2 | 5 | 8 | CEILING | 52 | 7,945 | 16,607 |
| 30-156 | J | 2 | 3 | 4 | CEILING | 76 | 13,378 | 16,607 |
| 30-157 | J | 1 . | 15 | 18 | CEILING | 49 | 13,378 | 16,607 |
| 30-158 | J | 1 | 7 | 9 | CEILING | 80 | 7,468 | 8,781 |
| 30-159 | Н | 1 | 13 | 5 | CEILING | 55 | 7,468 | 16,607 |
| 30-160 | Н | 1 | 13 | 11 | CEILING | 57 | no data | 16 607 |
| 30-161 | Н | 2 | 18 | 7 | CEILING | 62 | | THE OFFICE AND THE |
| 30-162 | н | 2 | 18 | 10 | CEILING | 67 | no data | \$ JA6 607 & |
| 30-162A | Н | 2 | 17 | 17 | CEILING | 63 | no data | 9,612 |
| 30-163 | Н | 3 | 18 | 5 | CEILING | 43 | 12,545 | 8,499 |
| 30-163A | Н | 3 | 12 | 3 | CEILING | 35 | no data | 4,078 |
| 30-164 | Н | 3 | 17 | 16 | CEILING | 37 | 13,378 | 4,078 |
| 30-164A | Н | 3 | 12 | 18 | CEILING | 42 | 13,378 | 4,078 |

776030 Follow-up Nal results

| | | | | i | <u> </u> | Г | pre | post |
|------------|--------|----------|-------|------|----------|--------|-------------|--|
| Ļ | Column | Column | | | | Gross | remediation | remediation |
| Location # | letter | Number | North | East | Surface | Counts | dpm/100cm2 | dpm/100cm2 |
| 30-165 | Н | 4 | 18 | 4 | CEILING | 44 | 13,378 | 4,078 |
| 30-165A | Н | 4 | 12 | 3 | CEILING | 61 | 13,378 | 8,992 |
| 30-165B | Н | 4 | 8 | 8 | CEILING | 47 | 16,607 | 4,651 |
| 30-166 | Ξ | 4 | 17 | 17 | CEILING | 90 | 7,468 | 9,575 |
| 30-167 | H | 5 | 19 | 6 | CEILING | 76 | 7,468 | 7,468 |
| 30-168 | H | 5 | 16 | 17 | CEILING | 73 | 12,545 | 7,468 |
| 30-169 | CEIL | ING REMO | /ED | | | | REMOVED | REMOVED |
| 30-170 | CEIL | ING REMO | /ED | | | | REMOVED | REMOVED |
| 30-171 | CEIL | ING REMO | /ED | | | | REMOVED | REMOVED |
| 30-172 | CEIL | ING REMO | /ED | | | | REMOVED | REMOVED |
| 30-173 | Н | 5 | 6 | 18 | CEILING | 50 | no data | ###468#n7# |
| 30-174 | Н | 5 | 4 | 3 | CEILING | 64 | no data | \$30,0468EF |
| 30-175 | Н | 4 | 5 | 15 | CEILING | 72 | no data | ## \$\$ ##\$468 \$ ##\$ |
| 30-176 | H | 4 | 9 | 9 | CEILING | 110 | no data | 145岁 24\$326 摄影 |
| 30-177 | Н | 3 | 5 | 18 | CEILING | 86 | no data | // 编数 |
| 30-178 | Н | 3 | 9 | 3 | CEILING | 50 | no data | PARTO NA |
| 30-179 | Н | 2 | 4 | 13 | CEILING | 72 | no data | · 14 / 14 68 / |
| 30-180 | Н | 2 | 8 | 4 | CEILING | 71 | no data | 6位多/外63 |
| 30-181 | Н | 1 | 5 | 18 | CEILING | 90 | no data | |
| 30-182 | Н | 1 | 4 | 4 | CEILING | 77 | no data | MACOUNT |
| 30-183 | G | 1 | 16 | 4 | CEILING | 85 | no data | を から |
| 30-184 | G | 1 | 15 | 15 | CEILING | 74 | no data | 海路 海水 海 路 |
| 30-185 | G | 2 | 15 | 5 | CEILING | 89 | no data | |
| 30-186 | G | 2 | 15 | 15 | CEILING | 73 | no data | THE STATE OF THE S |
| 30-187 | G | 3 | 17 | 3 | CEILING | 82 | no data | |
| 30-188 | G | 3 | 14 | 17 | CEILING | 78 | no data | |
| 30-189 | G | 4 | 12 | 5 | CEILING | 57 | no data | 并然"沙运" |
| 30-190 | G | 4 | 17 | 16 | CEILING | 87 | no data | AND ASSESSMENT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I |
| 30-191 | G | 5 | 18 | 6 | CEILING | 75 | no data | \$P\$ (4) 63 \$\$\$\$ |
| 30-192 | G | 5 | 14 | 18 | CEILING | 67 | no data | 和数/468 |
| 30-193 | | ING REMO | | | | | REMOVED | REMOVED |
| 30-194 | CEIL | ING REMO | VED | | | | REMOVED | REMOVED |
| 30-195 | CEIL | ING REMO | VED | | | | REMOVED | REMOVED |
| 30-196 | CEIL | ING REMO | VED | | | | REMOVED | REMOVED |
| 30-197 | G | 5 | 3 | 17 | CEILING | 89 | no data | √12,545 <i>4</i> |
| 30-198 | CEIL | ING REMO | VED | | | | REMOVED | REMOVED |
| 30-199 | G | 4 | 4 | 16 | CEILING | 75 | no data | SALES PROPERTY. |
| 30-200 | G | 4 | 9 | 4 | CEILING | 67 | no data | SHEET HERE |
| 30-201 | G | 3 | 6 | 18 | CEILING | 71 | no data | 美维斯的治疗理 类 |
| 30-202 | G | 3 | 9 | 3 | CEILING | 51 | no data | MA 248 1878 W. |
| 30-203 | G | 2 | 5 | 15 | CEILING | 46 | no data | 39 #16.60Z* |
| 30-204 | G | 2 | 9 | 3 | CEILING | 65 | no data | 7,468 |
| 30-205 | G | 1 | 5 | 17 | CEILING | 76 | no data | 7,468 |

776030 Follow-up Nal results

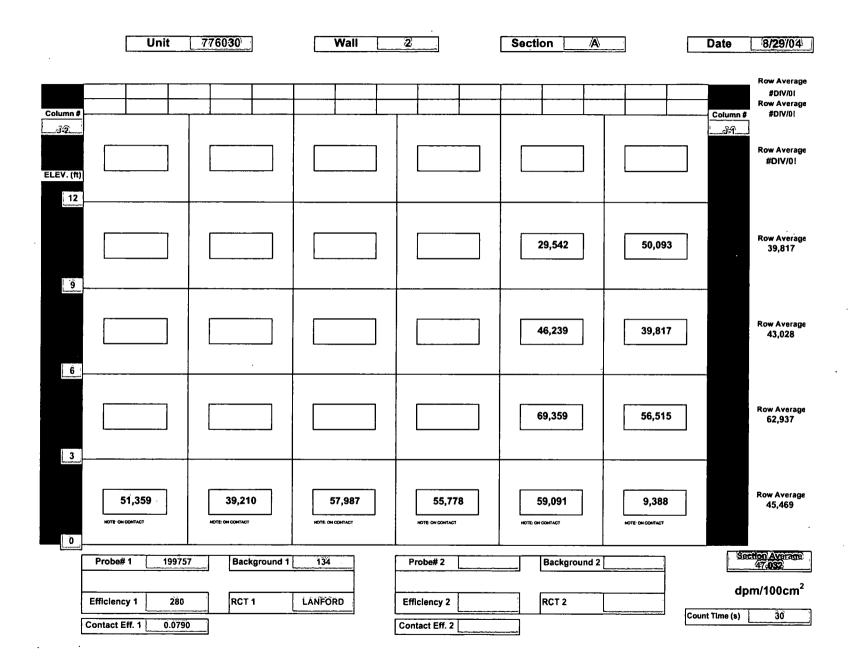
| | | | | | Ī | 7 | pre | post |
|------------|--------|--------|-------|------|---------|--------|-------------|-------------|
| | Column | Column | | | | Gross | remediation | remediation |
| Location # | letter | Number | North | East | Surface | Counts | dpm/100cm2 | dpm/100cm2 |
| 30-206 | G | 1 | 5 | 8 | CEILING | 89 | no data | 12,545 |

E

| Count Time (s) 30 | | Contact Eff. 2 | | - | ntact Eff. 1 0.0824 |
|--|--|---------------------------|---------------|-----------------|---------------------------|
| dpm/100cm ² | RCT 2 | Etticlency 2 | R.Burke | RCT 1 | yclency 1 260 |
| Secilon Average 172,0⊅ | Background 2 | Probe# 2 | 141 | Background 1 | 1 209090 L # 9 |
| Row Average 45,459 | 160,62 roansone atom transcent the second se | 811,22 HOTE ON OPPINGT | 786,73 | 39,210 | 63£, F2 |
| Besser Mog PFF,82 | 07E,E | £76,82 | 191,81 | 556,44 | 35,272 |
| sgeraya wog S26,74 | \$08'0p | 120'99 | 127,74 | 120 ' 99 | Z2 [,] 590 |
| egenayA woR #01\/IG# | | | | | |
| egetevA woR | | | | | |
| Row Average #DIV/0! Row Average Polumn # #DIV/0! | | | | | |

Date 8/22/04 Row Average #DIV/0! Row Average #DIV/0! Row Average #DIV/01 Row Average #DIV/01 Row Average 30,662 Row Average 48,183 Row Average 34,792 Section Average. 37,879 dpm/100cm² 8 Count Time (s) Column # Ó Background 2 Section RCT 2 Contact Eff. 2 Probe# 2 Efficiency 2 Wali 28,165 44,955 62,937 NOTE: ON CONTACT R.Burke 141 Background 1 31,123 47,721 53,569 RCT 1 Unit 776030 0.0824 209090 260 33,889 15,907 22,642 Contact Eff. 1 Efficiency 1 Probe#1 ELEV. (ft) 12 6 8 H-2 9 0 Column #

24



Row Average #DIV/01 Row Average #DIV/01 Date 8/29/04 Row Average #DIV/0! Row Average 12,780 Row Average 34,680 Row Average 59,341 Row Average 52,685 Section Averago 39,871 dpm/100cm² ဥ Count Time (s) Column # Reg NOTE: ON CONTACT Section (A) Background 2 15,413 32,111 39,817 59,091 RCT 2 HOTE: ON CONTACT 10,275 30,826 59,084 55,778 Contact Eff. 2 Probe# 2 Efficiency 2 33 Wall 30,826 80,919 57,987 3,050 NOTE: ON CONTACT LANFORD 134 Background 1 39,210 32,111 53,946 28,257 RCT 1 Unit 776030 NOTE: ON CONTACT 199757 0.0790 280 51,359 51,377 3,050 62,937 NOTE: ON CONTACT Contact Eff. 1 Probe# 1 Efficiency 1 ELEV. (ft) 12 6 9 က 0 FE. Column #

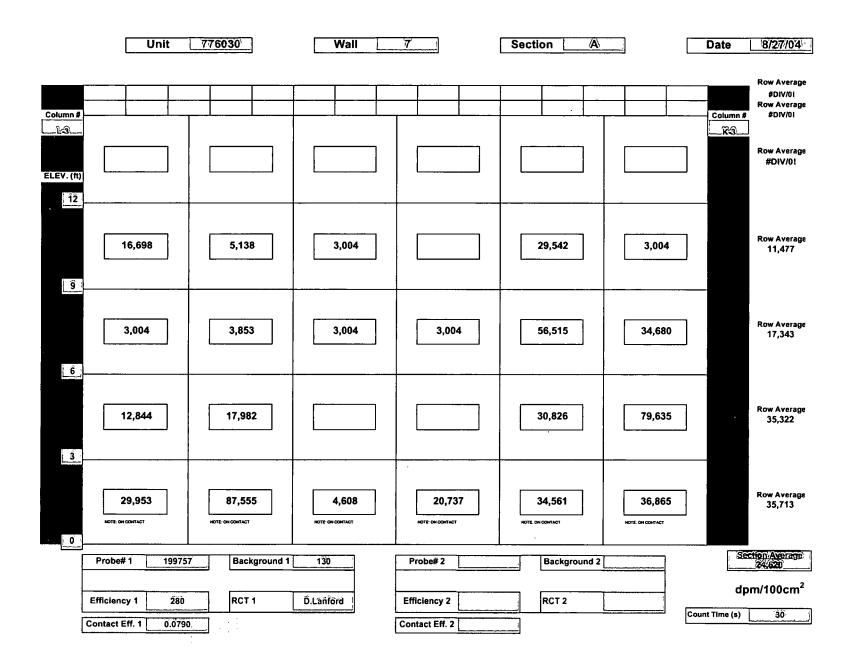
طيل

Date 9/19/04 Row Average #DIV/0! Row Average #DIV/0! Row Average #DIV/01 Row Average 32,605 Row Average 44,665 Row Average 39,445 Row Average 40,146 dpm/100cm² Count Time (s) Column # (2) NOTE: ON CONTACT Background 2 Section A RCT 2 Contact Eff. 2 Efficiency 2 Probe# 2 Wall 4 NOTE: ON CONTACT BARTOLOMY 116 Background 1 44,085 45,245 RCT 1 2,563 2,563 Unit 776030 Probe# 1 212343 Contact Eff. 1 0.0800 310 34,804 44,085 62,647 77,729 Efficiency 1 6 9 ELEV. (ft) 12 3 Column # £

24

Date 8/29/04 Row Average #DIV/01 Row Average 16,129 Row Average #DIV/0! Row Average 19,266 Row Average 42,386 Row Average 17,982 Row Average 16,129 dpm/100cm² Section Average Z3.941 30 Count Time (s) Column # ાંજ NOTE: DH CONTACT € Background 2 RCT 2 Section NOTE: ON CONTACT NOTE ON CONTACT Contact Eff. 2 Efficiency 2 Probe# 2 5 Wall NOTE, ON CONTACT LANFORD 134 Background 1 RCT 1 Unit 776030 NOTE: ON CONTACT 199757 0.0790 280 19,266 42,386 17,982 16,129 Contact Eff. 1 HOTE, OH CONTACT Efficiency 1 Probe# 1 16,129 ELEV. (ft) 12 6 9 33 Column # 0 RE

| Unit | 776030 | Wall | 5 | Section B | | Date | 8/29/04 |
|-----------------------|----------------|----------------------------|------------------|------------------|-----------------|----------------|--|
| Column # | | | | | | Column # | Row Average #DIV/01 Row Average #DIV/01 |
| ELEV. (ft) | | | | | | | Row Average #DIV/01 |
| <u> </u> | 11,560 | 19,266 | | | | | Row Average 15,413 |
| 6 | 32,111 | 38,533 | | | | | Row Average 35,322 |
| 3 | 32,111 | 3,050 | | | | | Row Average 17,580 |
| NOTE, ON CONTACT | 3,050 | 16,129 NOTE: ON CONTACT | NOTE: DH CONFACT | MOTE: ON CONTACT | NOTE ON CONTACT | | Row Average 9,589 |
| Probe# 1 19975 | 7 Background 1 | 134 | Probe# 2 | Background 2 | | 550 | 19/476 |
| Efficiency 1 280 | RCT 1 | LANFORD | Efficiency 2 | RCT 2 | | | m/100cm ² |
| Contact Eff. 1 0.0790 | | | Contact Eff. 2 | | | Count Time (s) | 30 |



Date 8/22/04 Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/01 Secrion/Average Sh.Seo Row Average 17,274 Row Average 24,922 Row Average 59,640 dpm/100cm² Count Time (s) 30 Column # 83,772 27,446 20,821 35,964 NOTE: ON CONTACT á Background 2 12,303 33,095 22,714 RCT 2 2,378 Section 34,129 18,928 11,357 20,821 Contact Eff. 2 NOTE: ON CONTACT Probe# 2 Efficiency 2 Wall 116,867 27,446 25,553 17,036 NOTE. ON CONTACT Jónès 150 Background 1 32,178 26,500 22,714 42,403 RCT 1 NOTE ON CONTACT Unit 776030 212348 Contact Eff. 1 0.0880 380 39,750 40,696 47,574 4,732 NOTE ON CONTACT Efficiency 1 Probe#1 ELEV. (ft) 6 9 (C) 0 Column #

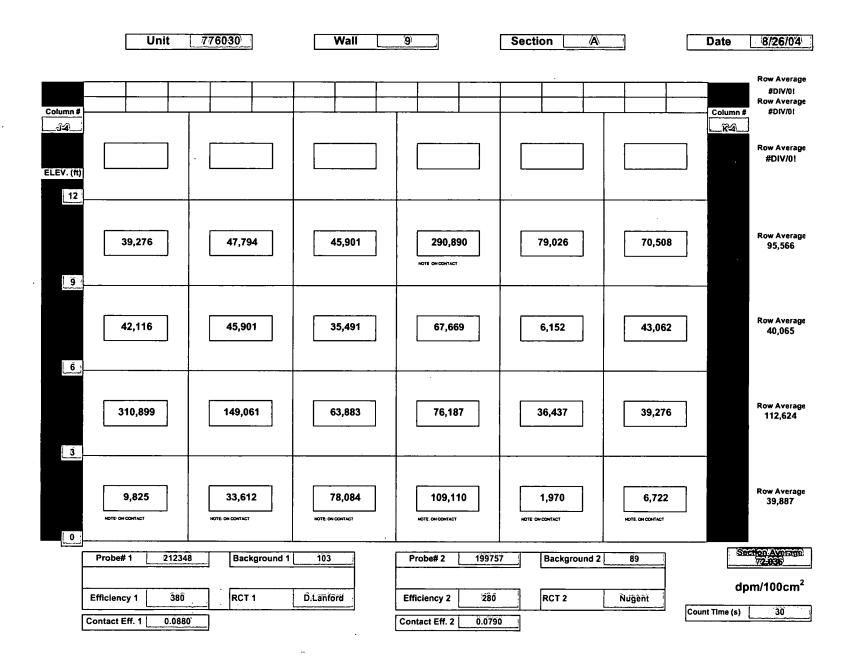
| (8/27/04) | | Row Average #DIV/0! | Row Average 40,674 | Row Average 53,090 | Row Average 53,518 | Row Average 35,713 | Secreto Average 4S.749 dpm/100cm² | (8) 30 |
|-----------|----------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------------|---|---|
| Date | Cotumn # | | | | | | | Count Time (s) |
| Section B | | | | | | | Background 2 | RCT 2 |
| 7 | | | | | | | Probe#2 | Efficiency 2 Contact Eff. 2 |
| Wall | | | 48,808 | 68,075 | 61,653 | 36,865 HOTE: ON CONTROCT | | D.Lanford |
| 776030 | | | 41,102 | 44,955 | 52,662 | 33,409 | | RCT 1 |
| Unit | | | 32,111 | 46,239 | 46,239 | 36,865 | | Efficiency 1 280 Contact Eff. 1 0.0790 |
| | olumn # | LEV. (ft) | 6 | (0 | (4) | 0 | | |

32

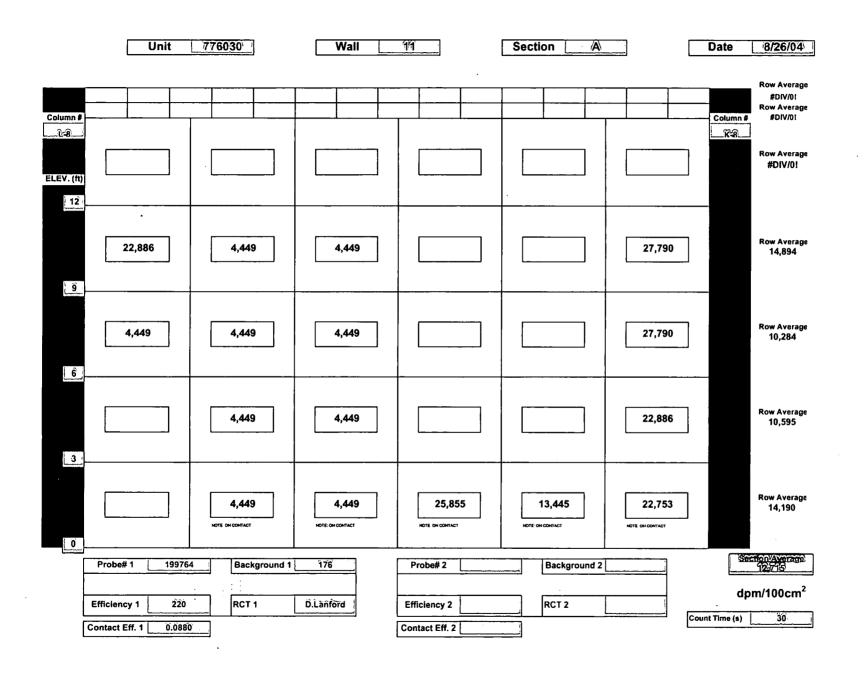
 $\left(\frac{1}{2} \right)^{-1}$

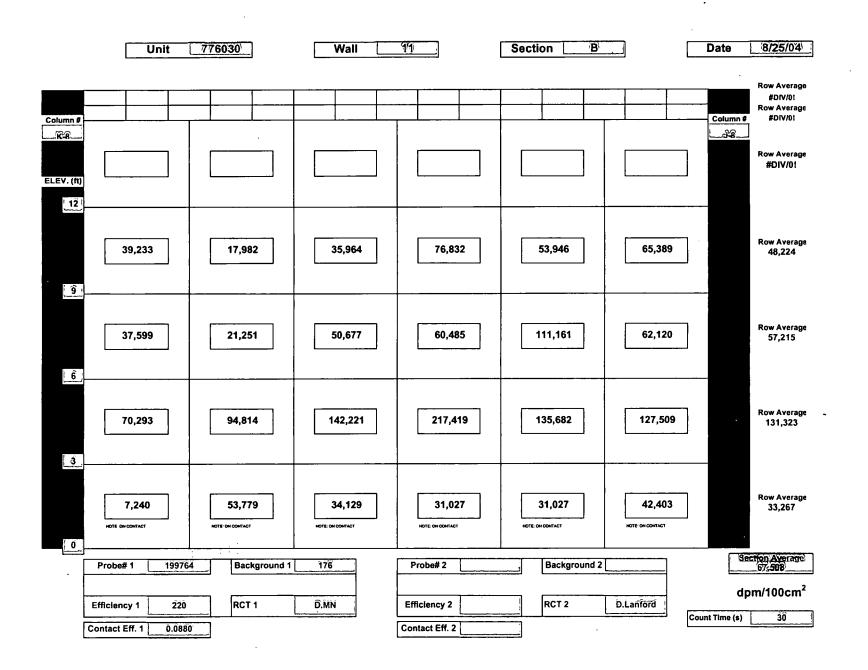
| Date 8/27/104 | Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/01 | Row Average 40,674 | Row Average 33,823 | Row Average 27,401 | Row Average 28,801 | Secritory and dpm/100cm ² Count Time (s) 30 |
|---------------|---|-----------------------|-----------------------|-----------------------|-----------------------|---|
| Q | | 32,111 | 33,395 | 20,551 | 19,585 | |
| Section A | | 51,377 | 59,084 | 28,257 | 41,473 | Background 2 |
| (8) | | 38,533 | 8,991 | 33,395 | 25,345 ent months | Probe# 2 Efficiency 2 Contact Eff. 2 |
| Wall | | | | | | 1 130 D.Länförd |
| 776030 | | | | | | 757 Background 1 0 RCT 1 |
| Unit | Column # | 6 | (46 | | | Probe#1 199757 Efficiency 1 280 Contact Eff. 1 0.0790 |

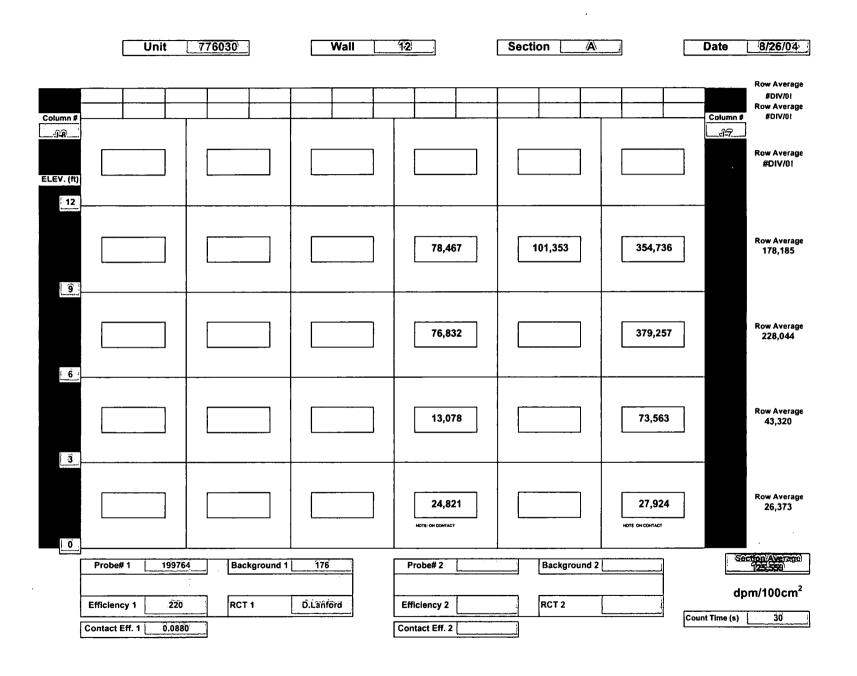
| 8/27/04 | Row Average #DIV/01 Row Average #DIV/01 #DIV/01 | Row Average 22,265 | Row Average 45,469 | Row Average 53,432 | Row Average 47,003 | Section/Average 43,085 dpm/100cm ² |
|-----------|---|-----------------------|-----------------------|-----------------------|----------------------------|--|
| Date | Column # | | | | | dp |
| | | 39,817 | 53,946 | 52,662 | 50,690 NOTE ON COMPILET | loo l |
| Section B | | 42,386 | 104,039 | 55,230 | 59,906 | Background 2 |
| [8] | | 3,853 | 37,248 | 65,506 | 48,386 | Probe#2 Efficiency 2 Contact Eff. 2 |
| Wall | | | 10,275 | 44,955 | 42,626 HOTE OM COMPUTED | 130 D.Lanford |
| 776030 | | 3,004 | 21,835 | 48,808 | 33,409 | Background 1 |
| Unit | | | | | | Probe# 1 199757 Efficiency 1 280 Contact Eff. 1 0.0790 |
| | Column # | ത്ര | 00 | (m) | 0 | |

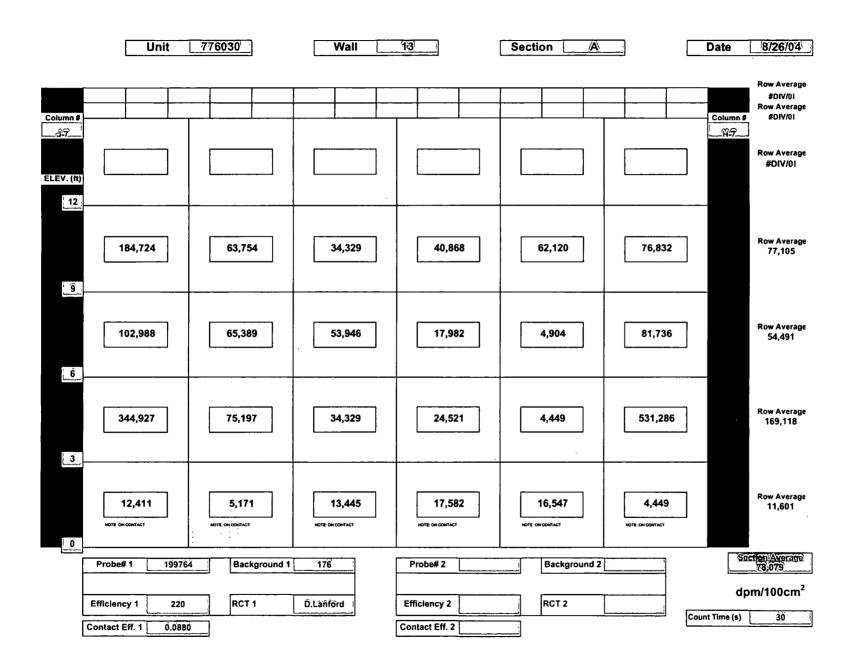


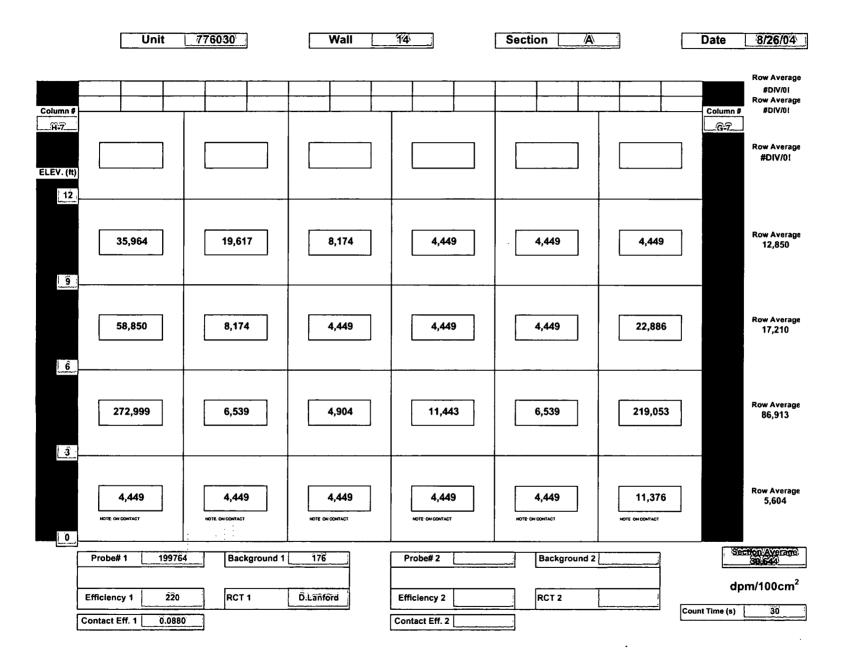
| | Unit | 776030 | Wall | 9 | Section B | | Date 8/26/04 |
|------------|-----------------------|--------------|----------------------------|----------------|--------------------------|----------------------------|--|
| Column# | | | | | | | Row Average #DIV/0! Row Average Column # #DIV/0! |
| ELEV. (ft) | | | | | | | Row Average #DIV/0I |
| 9 | 81,865 | | | 23,187 | 7,098 | 20,348 | Row Average 33,125 |
| 6 | 27,919 | 106,472 | 63,883 | 10,884 | 20,348 | 54,419 | Row Average 47,321 |
| 3 | 1,970 | | | | 16,562 | 12,777 | Row Average 10,437 |
| | 27,407 -OM GOMTACT | 35,681 | 10,859 HOTE. ON CONTACT | | 1,970 HOTE ON CONTACT | 33,612 HOTE: ON CONTACT | Row Average 21,906 |
| Prob | e# 1 212348 | Background 1 | 103 | Probe# 2 | Background 2 | | Section Average 30,959 |
| Efficie | ncy 1 380 | RCT 1 | D.Läńförd | Efficiency 2 | RCT 2 | Coun | dpm/100cm ² |
| Contac | t Eff. 1 0.0880 | | İ | Contact Eff. 2 | | <u> </u> | -, |

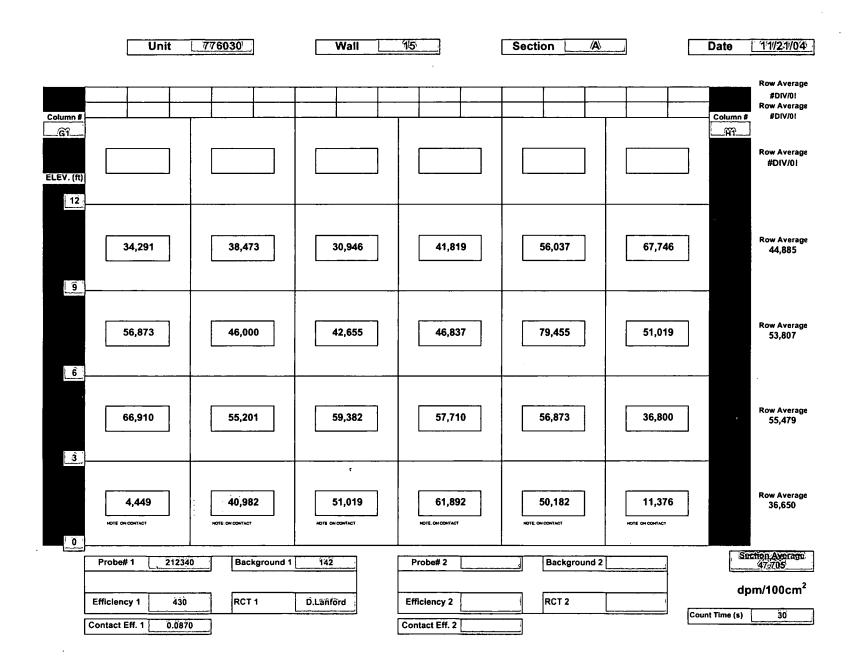


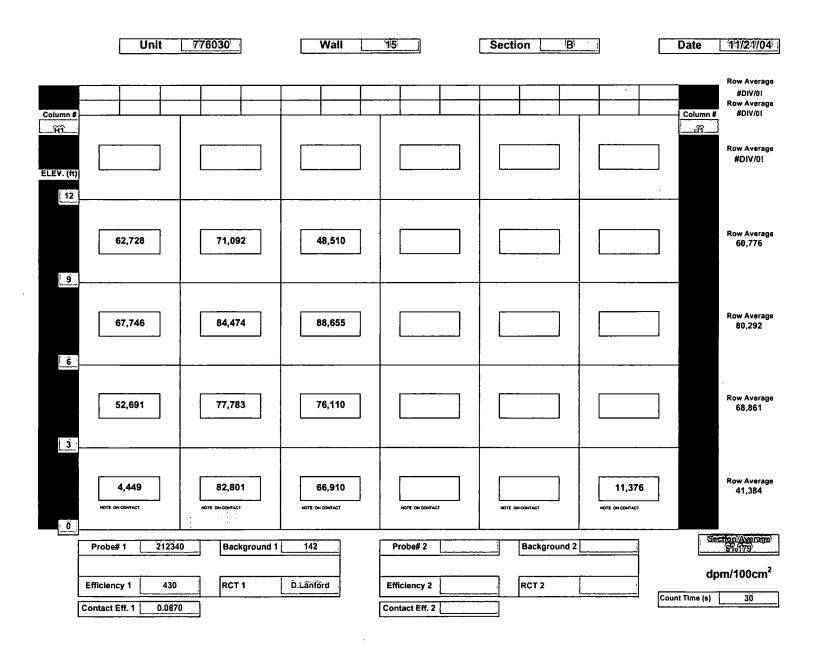








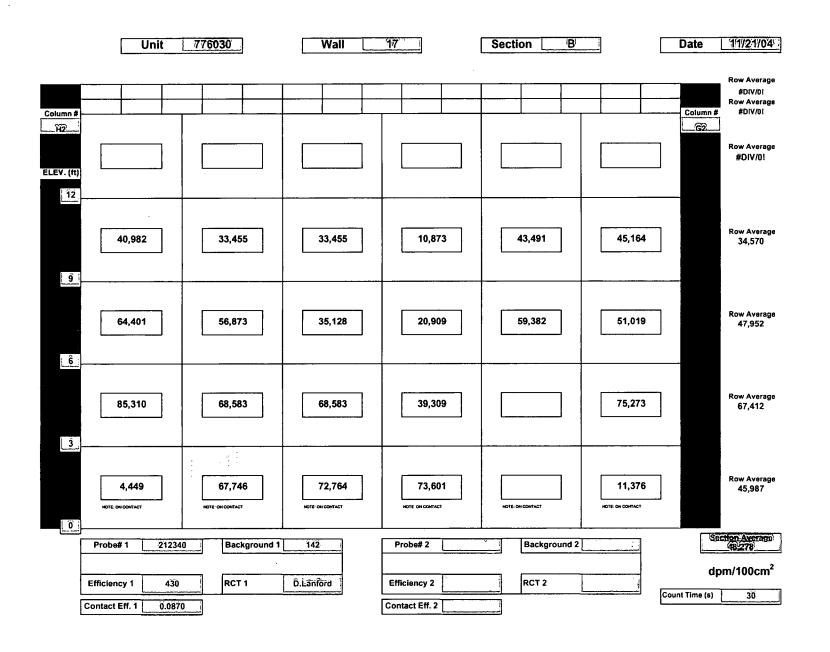




0780.0 Contact Eff. 2 Contact Eff. 1 30 Count Time (s) Efficiency 1 RCT 2 Efficiency 2 D.Lanford RCT 1 430 dpm/100cm² Section Average 54.296 Background 2 Probe# 2 Background 1 212340 145 Probe# 1 0 TOATHOO NO . STON NOTE: ON CONTACT TOATHOO HO STON 559,55 946,11 75,273 71,092 474,48 916'94 677'7 Row Average ε 13,601 71,928 **749**'£6 70,255 71,092 827,28 71,928 Row Average 9 10,534 76,437 £85,83 268,18 826,17 18,619 947,78 Row Average 6 911,74 24'364 36,800 18,400 **7£0,88** 45'655 76,437 Row Average 15 ELEV. (ft) 10/AIG# Вом Ачегада ্ট্র -FGi0/AIQ# Column # # umulo3 Row Average 10/AIQ# врвтвуд жоя 11/21/04 Section Date W 776030 91, **IlsW** JinU

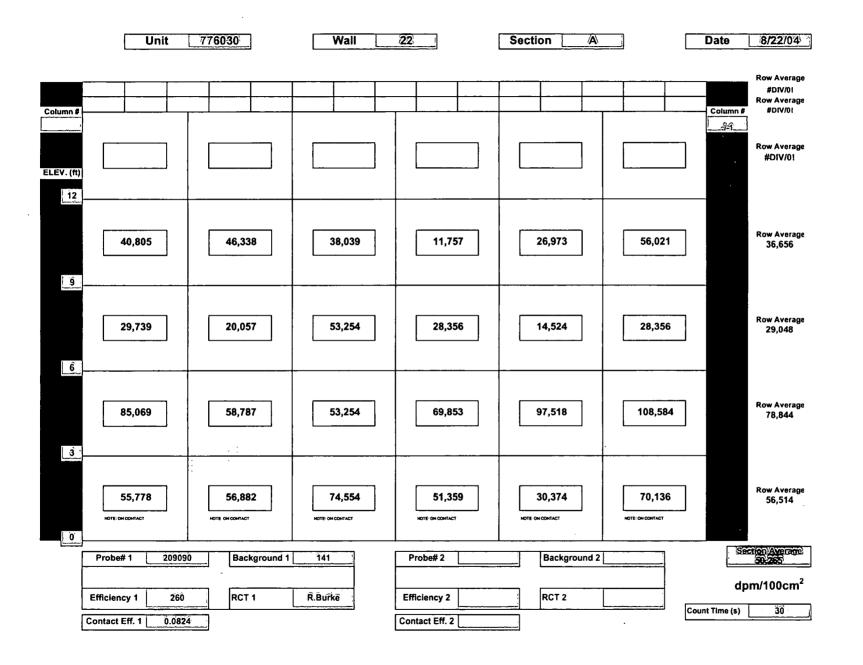
Contact Eff. 2 0780.0 Contact Eff. 1 Count Time (s) 30 Efficiency 2 RCT2 D.Lanford RCT 1 430 Efficiency 1 qbw\100cm_s Section Average Background 2 Probe# 2 Background 1 515340 Probe# 1 145 0 TOATMOO NO .STON HOJE: ON CONTACT NOTE, ON CONTACT HOTE: ON CONTACT HOTE, ON CONTACT TOATHOO HO STON 41,802 11,376 71,928 79,455 677'7 Row Average 3 78,340 74,437 72,764 618,78 Row Average 9 109,67 60,219 70,255 825,06 Row Average 6 649'129 169'79 976'94 104,401 Row Average 12 ELEV. (ft) #DIA\0i Row Average द्धम <u>. 12</u> # nmuloo Column # 10/AIG# Row Average IO/AIQ# Row Average 10/12/11 776030 Date **** Section 21 llsW tinU

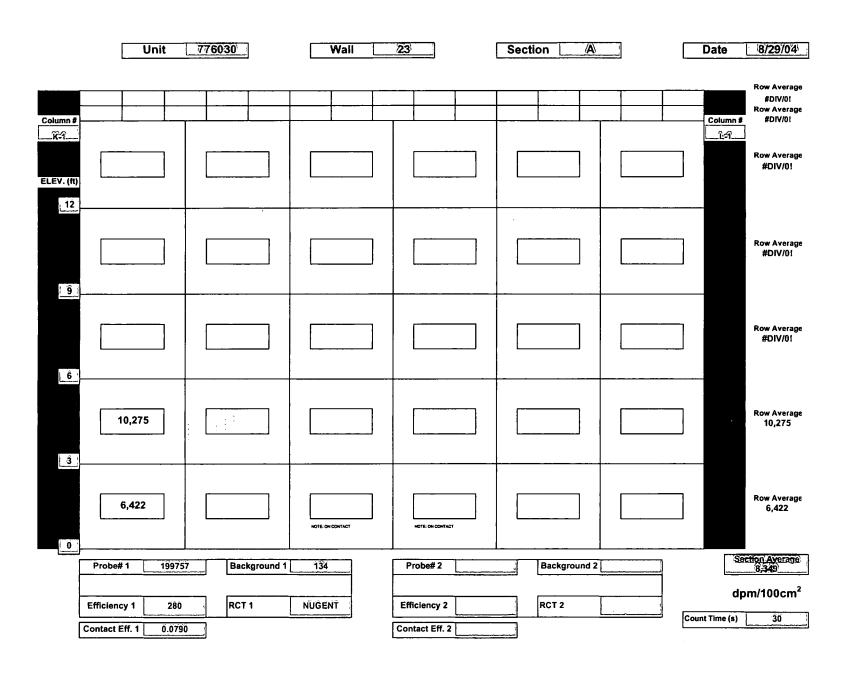
Z



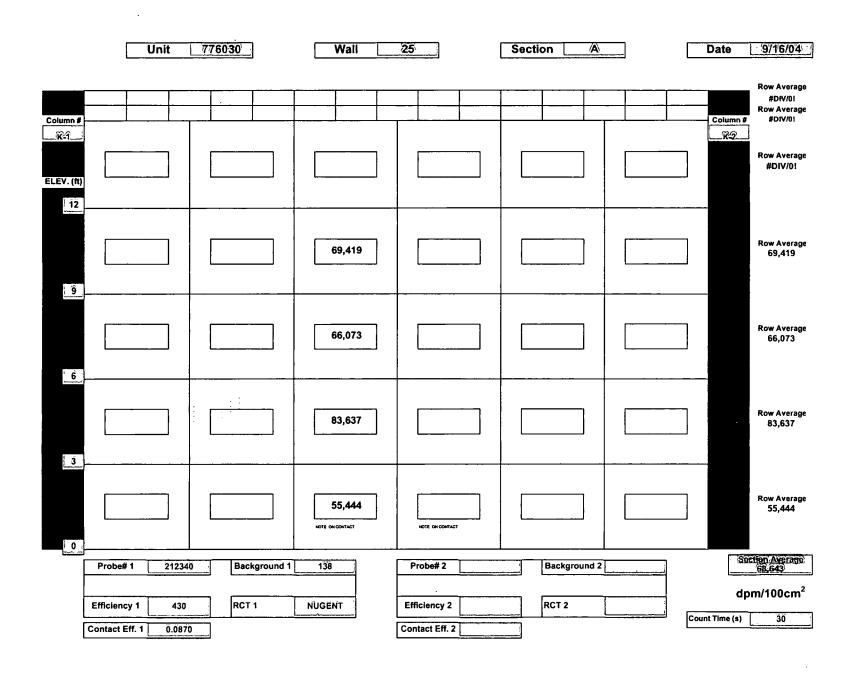
| 11/21/04 | Row Average #DIV/01 Row Average #DIV/01 #DIV/01 | Row Average 36,522 | Row Averege 46,502 | Row Average 51,521 | Row Average 37,456 | Sacram/Ageram (C.682) dpm/100cm² |
|----------|---|-----------------------|-----------------------|-----------------------|---------------------------|--|
| Date | Column # | | | | | dpr |
| | | 28,437 | 44,328 | 54,364 | 11,376 | |
| | | 41,819 | 47,673 | 50,182 | 58,546 HOTE ON COMPACT | Background 2 |
| | | 49,346 | 59,382 | 59,382 | 46,837 | Probe# 2 Efficiency 2 |
| | | 18,400 | | | NOTE ON CONTACT | 142 D.Lanford |
| | | 33,455 | 42,655 | 35,128 | 66,073 | Background 1 |
| | | 47,673 | 38,473 | 58,546 | 4,449 | Probe# 1 212340 Efficiency 1 430 |

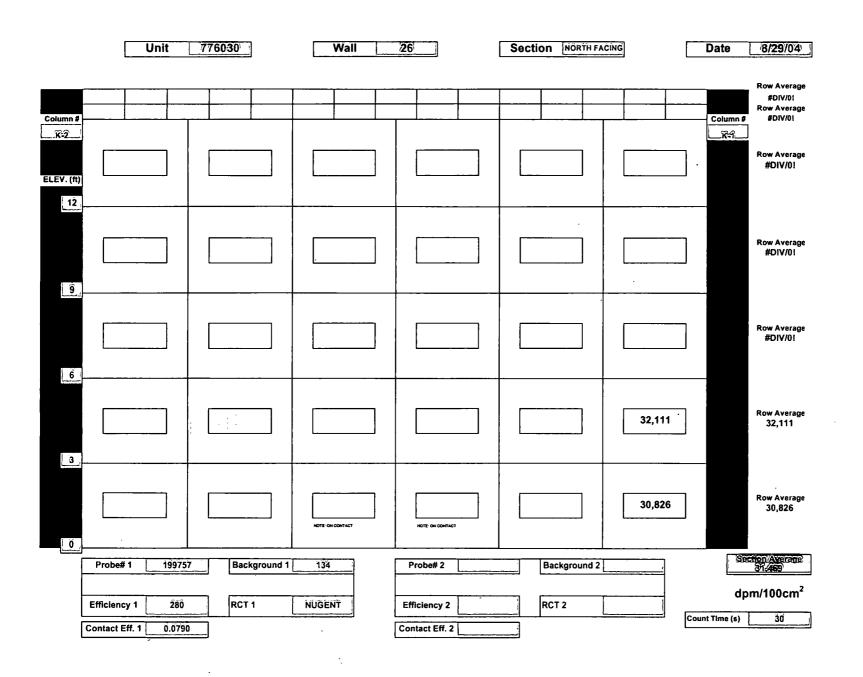
| Probel 1 19764 Background 1 151 Probel 2 Background 2 Goldman 2 Goldman 3 Goldman 3 Goldman 4 Goldman 4 Goldman 4 Goldman 5 Unit | 776030 Wa | II <u>20</u> \ | Section A | Date 12/29/04 |
|--|----------------------------|------------------|----------------|--------------|---|
| T7,708 | olumn# | 1 | | | #DIV/01 Row Average Column # 93,484 |
| 77,708 | | | | | Row Average |
| 72,570 68,717 71,286 Row Average 70,858 Row Average 91,837 3 91,506 134,044 54,904 | 77,708 | 48,166 71,28 | 86 | | Row Average 65,720 |
| 102,112 86,699 86,699 Row Average 91,837 Row Average 93,484 S4,904 SOITE CHICOMPACT SOITE CH | 72,570 | 68,717 71,28 | B6 | | |
| 91,506 | 102,112 | | 99 | | |
| Probe# 1 199764 Background 1 151 Probe# 2 Background 2 Section Average 80,475 Efficiency 1 280 RCT 1 BOGNAR Efficiency 2 RCT 2 RCT 2 | 91,506 MOTE: ON GONTACT | <u> </u> | | | |
| Efficiency 1 280 RCT 1 BOGNAR Efficiency 2 RCT 2 | | Background 1 151 | Probe# 2 | Background 2 | Section Average 80,475 |
| Count Time (s) 30 | Efficiency 1 280 | RCT 1 BOĞNAR | Efficiency 2 | RCT 2 | dpm/100cm ² |





| (8/29/04) | Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/01 | Row Average #DIV/0! | Row Average #DIV/01 | Row Average 28,900 | Row Average 19,266 | Section Average Extraction 200 mm 30 statements |
|-----------|--|------------------------|------------------------|---|-----------------------|--|
| Date | Column # | | | | | dj Count Time (s) |
| Section A | | | | | | Background 2 |
| 24 | | | | | HOTE DI CONTACT | Probe# 2 Efficiency 2 Contact Eff. 2 |
| Wall | | | | | HOTE CH CONTACT | NUGENT |
| 776030 | | | | 24,404 | 26,973 | Background 1 |
| Unit | | | | 33,395 | 11,560 | Probe# 1 199757 Efficiency 1 280 Contact Eff. 1 0.0790 |
| | Column # R-f | 6 | 9 | · • • • • • • • • • • • • • • • • • • • | 0 | |

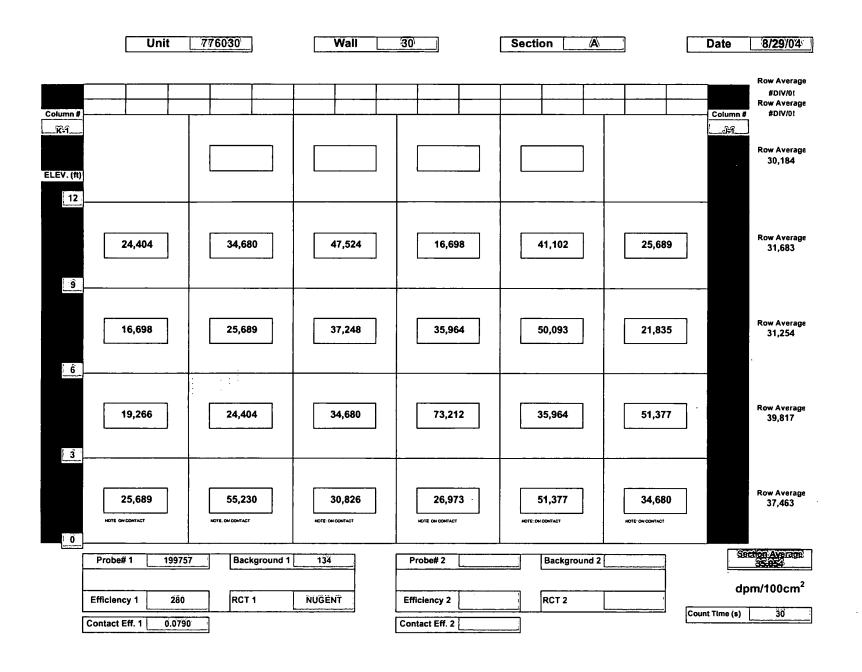




Date 8/29/04 Row Average #DIV/0! Row Average #DIV/0! Row Average 35,536 Row Average #DIV/0! Row Average 34,680 Row Average 35,643 Row Average 38,961 dpm/100cm² Section Average 36,820 ခွ Count Time (s) Column # ુ Section Background 2 RCT 2 Contact Eff. 2 NOTE: DHI CONTACT Efficiency 2 Probe# 2 12 Wall 25,689 15,413 24,404 28,257 NOTE: ON CONTACT NUGENT 134 Background 1 44,955 32,111 47,524 RCT 1 23,120 Unit 776030 0.0790 199757 280 46,239 47,524 65,506 41,102 Contact Eff. 1 Efficiency 1 Probe#1 ELEV. (ft) Column # 12 6 9 3 0 2

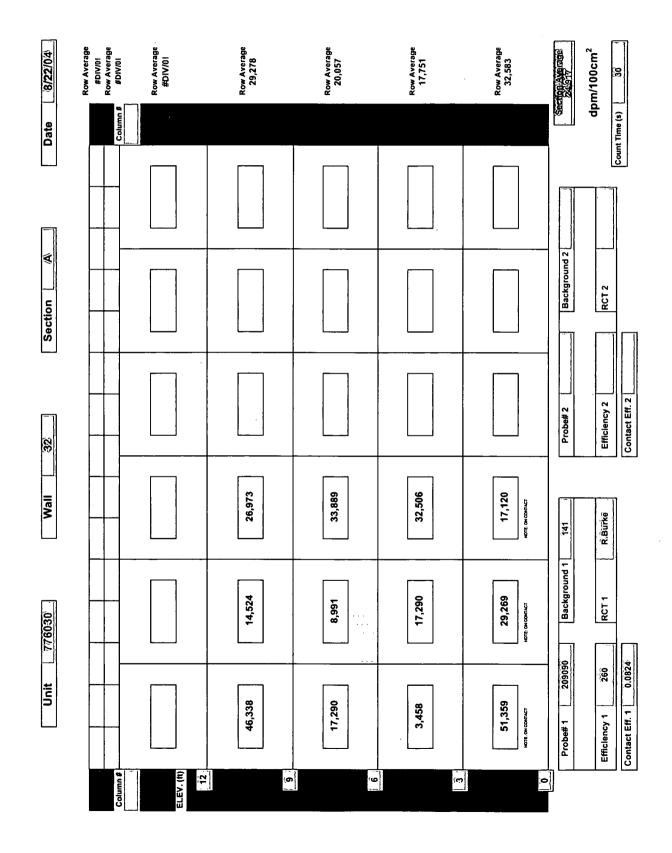
| | Unit 7 | 76030 | Wall | 28 | Section A | | Date 8/29/04 | |
|-------------|--------------|--------------|------------------|------------------------------|--------------|-----|--|--|
| Column # | | | | | | | Row Average #DIV/01 Row Average Column # #DIV/01 | |
| ££EV. (ft) | | | | | | | Row Average #DIV/0! | |
| 12 <u> </u> | | | | 79,635 | 37,248 | | Row Average 58,442 | |
| 6 | | | | 47,524 | 53,946 | | Row Average 50,735 | |
| 3 | | :: | | | 51,377 | | Row Average 51,377 | |
| | | | NOTE: ON ODNTAGT | NOTE: ON CONTACT | 37,248 | | Row Average 37,248 | |
| Prob | be# 1 199757 | Background 1 | 134 | Probe# 2 | Background 2 | | Section/Average 516168 | |
| Efficie | | RCT1 . | ÑUĜĒŇT | Efficiency 2 Contact Eff. 2 | RCT 2 | Cou | dpm/100cm ² | |

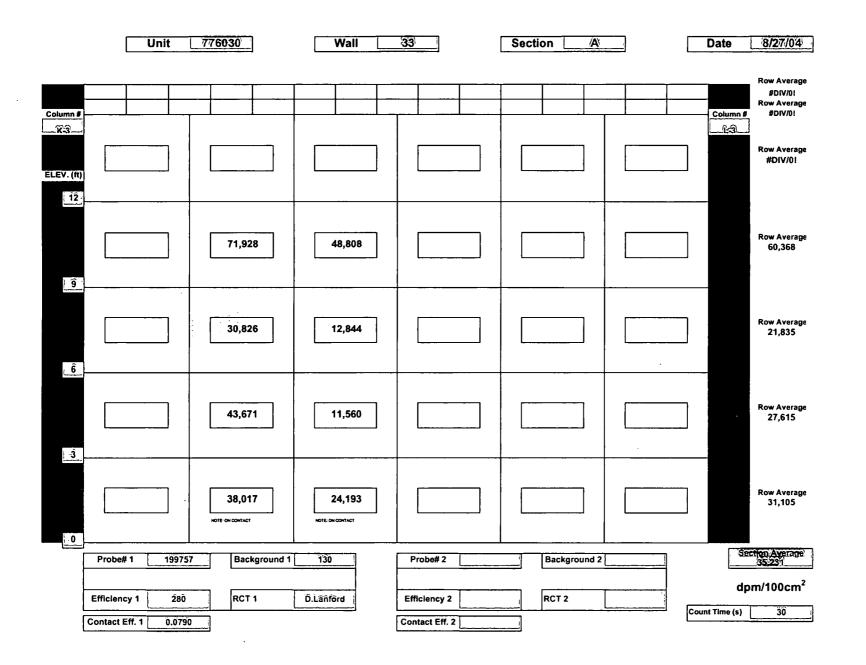
| | Unit 776030 | Wall 29 | Section A | Date 8/29/0'4 |
|-----------|---|--|--|---|
| Column # | | | | Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/01 |
| 9 | | | | Row Average #DIV/0! |
| Ĝ | | | | Row Average #DIV/01 |
| <u>_3</u> | | 35,964 | 43,671 | Row Average 39,817 |
| 0 | Probe#1 199757 Background 1 | 15,413 NOTE ON CONTACT 134 Probe# 2 | 17,982 MOTE: ON CONTIACT MOTE: ON CONTIACT | 16,698 Section Average 28,257 dpm/100cm ² |
| | Efficiency 1 280 RCT 1 Contact Eff. 1 0.0790 | NUGENT Efficiency 2 Contact Eff. 2 | RCT 2 | ount Time (s) 30 |

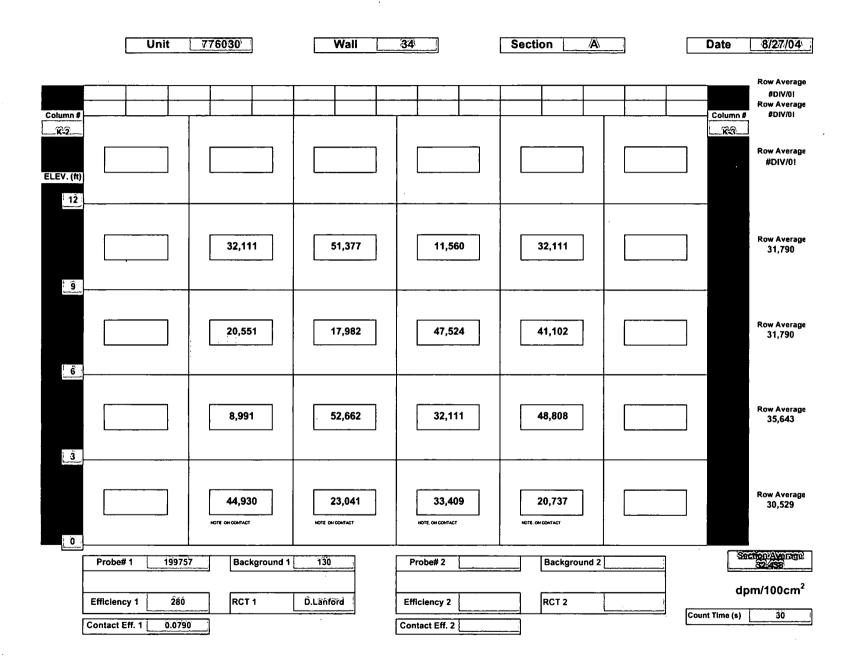


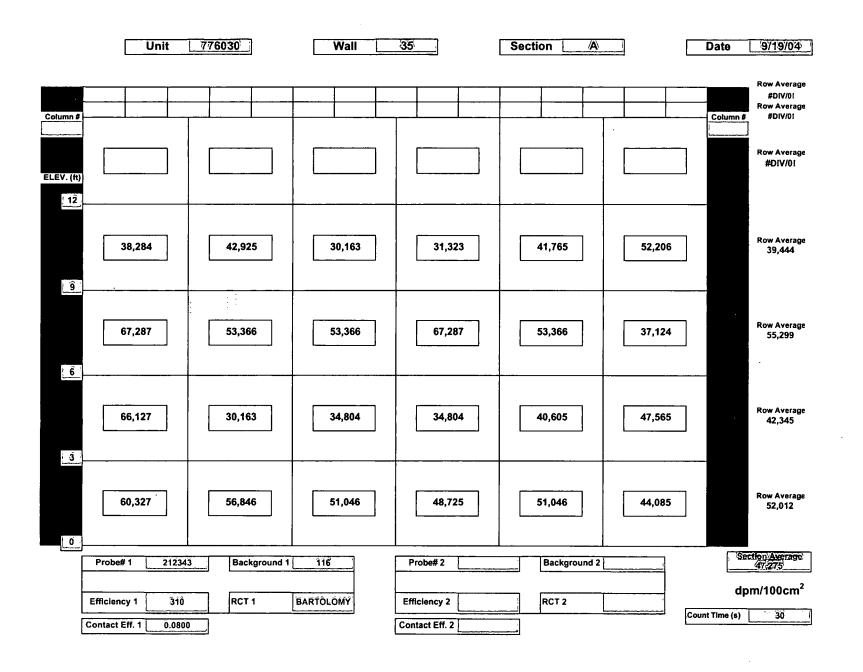
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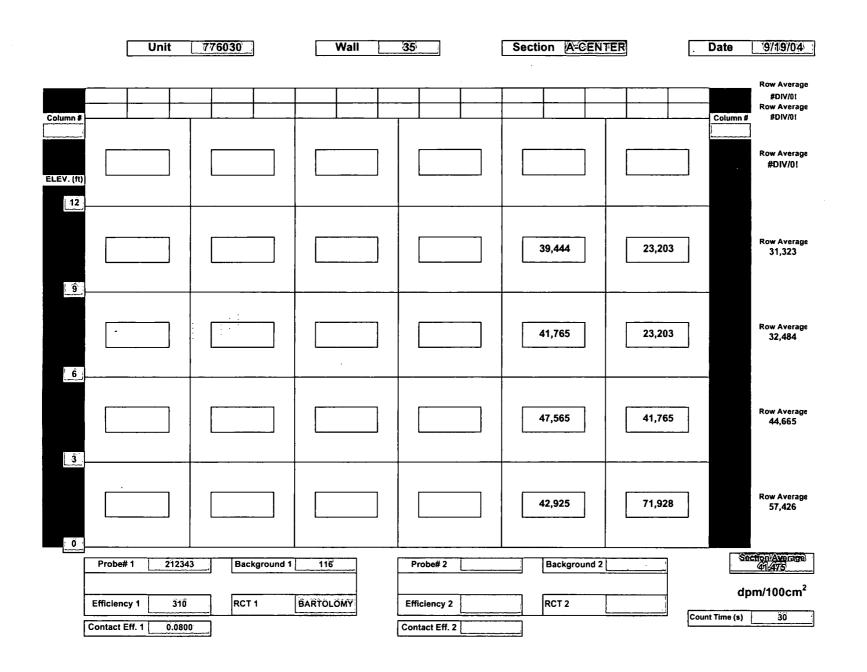
| Unit 776030 | Wall 31 WEST SIDE OF STAIRWELL | Section A | Date 8/27/04 |
|---|--------------------------------|--------------|--|
| Column # | | | Row Average #DIV/0! Row Average Column # #DIV/0! |
| ELEV. (ft) | | | Row Average #DIV/01 |
| 9 | 12,844 17,982 | | Row Average 15,413 |
| 6 | 46,239 17,982 | | Row Average 32,111 |
| | 69,359 84,772 | | Row Average 77,066 |
| | 54,146 55,298 HOTE: ON CONTACT | | Row Average 54,722 |
| Probe# 1 199757 Background 1 13 | 00 Probe# 2 | Background 2 | Section Average 44,828 |
| Efficiency 1 280 RCT 1 D.Lar Contact Eff. 1 0.0790 | Efficiency 2 Contact Eff. 2 | RCT 2 | dpm/100cm ² |

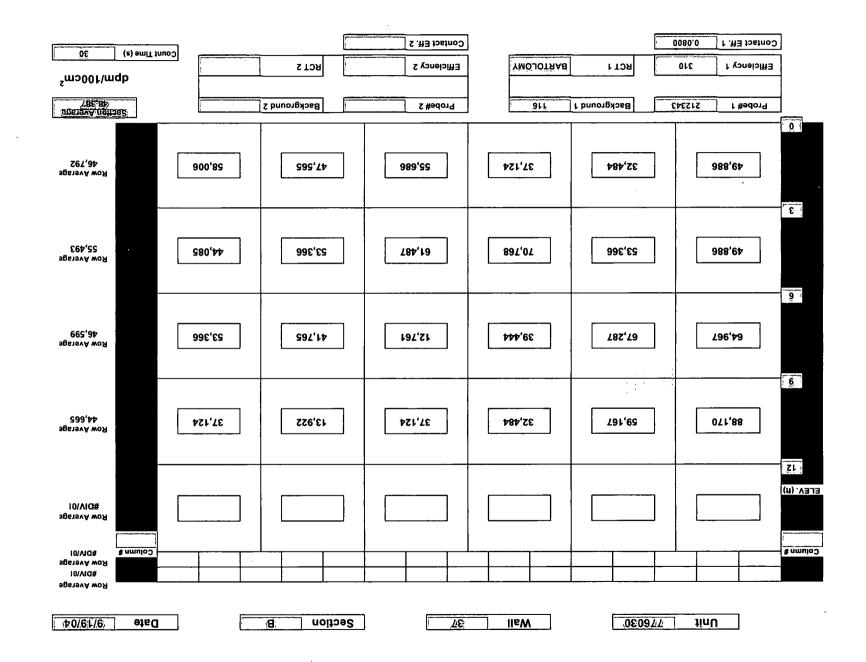












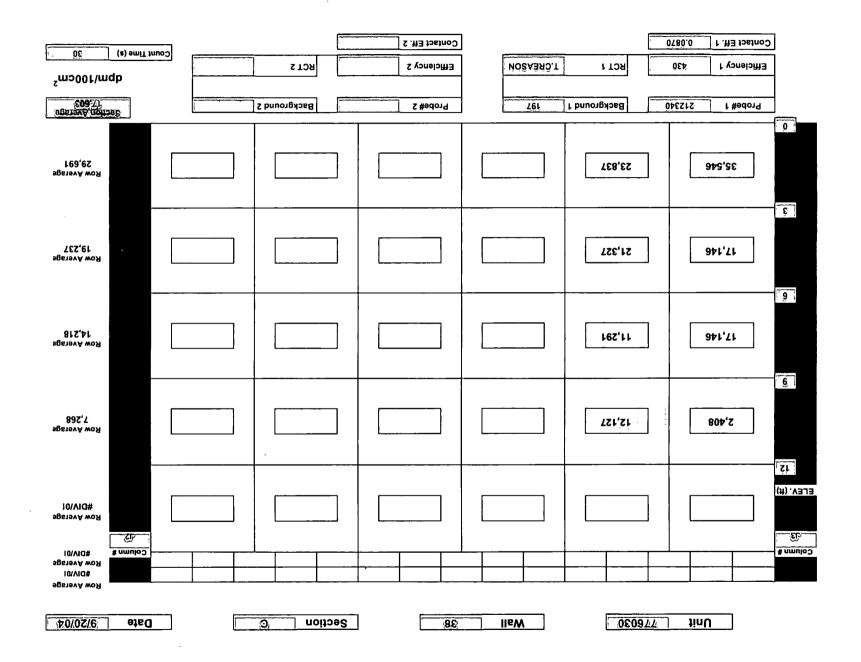
| | Unit | 776030 | Wall | 37 | Section BECENT | ER | Date 9/19/04 |
|------------|-----------------------|--------------|-----------|----------------|----------------|--------|---|
| Column # | | | | | | | Row Average #DIV/01 Row Average Column # #DIV/01 |
| ELEV. (ft) | | | | | | | Row Average #DIV/01 |
| 12 | | | | | 29,003 | 26,683 | Row Average 27,843 |
| Ĝ | | | | | 23,203 | 16,242 | Row Average 19,722 |
| 3 | | | | | 31,323 | 23,203 | Row Average 27,263 |
| 0 | | | | | 34,804 | 53,366 | Row Average 44,085 |
| | Probe# 1 21234 | Background 1 | 116 | Probe# 2 | Background 2 | | Section Average |
| | Efficiency 1 310 | RCT 1 | BARTOLOMY | Efficiency 2 | RCT 2 | .1 | dpm/100cm ² |
| | Contact Eff. 1 0.0800 | | <u></u> | Contact Eff. 2 | | Count | Time (s) 30 |

Date 9/20/04 Section Average 11.257 Row Average #DIV/01 Row Average #DIV/01 Row Average 6,431 Row Average #DIV/0! Row Average 22,582 Row Average 2,408 Row Average 7,109 dpm/100cm² Count Time (s) 36 33 14,637 7,109 2,408 2,408 Background 2 Section A 10,455 RCT 2 30,528 Contact Eff. 2 Probe# 2 Efficiency 2 Wall 38 T.CREASON 197 Background 1 RCT 1 Unit 776030 Probe#1 212340 Contact Eff. 1 0.0870 430 Efficiency 1 ELEV. (ft) (6) 12 6 9 35

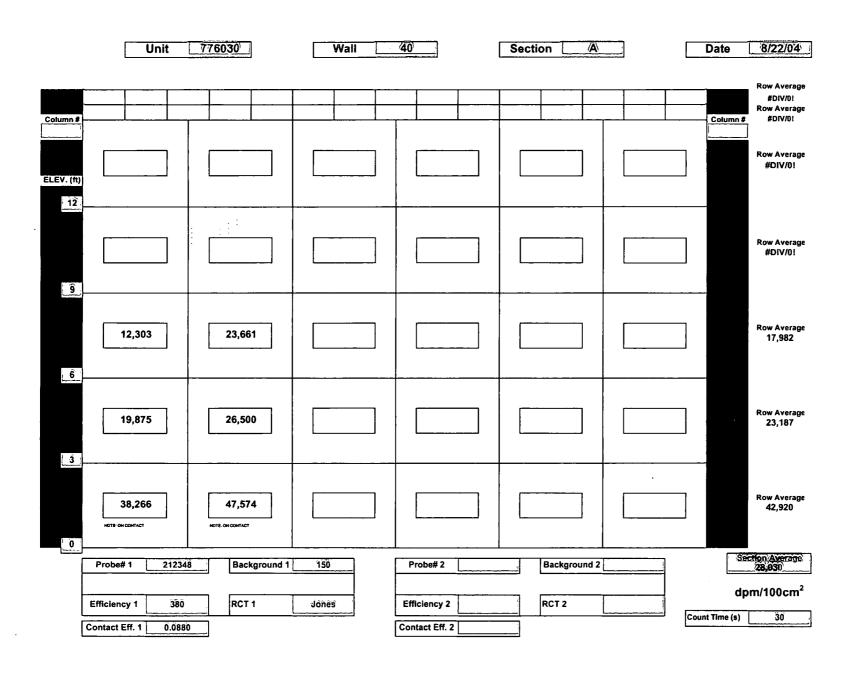
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Contact Eff. 2 0780.0 Contact Eff. 1 Count Time (s) 30 Efficiency 2 RCT 2 T.CREASON FIDA 430 Efficiency 1 qbw\100cm_s Background 2 Probe# 2 461 Background 1 212340 Probe# 1 0 Row Average 56,455 £79,07 618'19 284,782 619'99 36,382 3 800 Average 36,048 35,200 43,910 19,655 108,63 24,673 9 29,253 819,6 578,55 804,2 154,13 48,928 Row Average 6 8,303 15,473 804,2 2,408 804,2 18,818 Row Average 15 ELEV. (ft) 10/AIQ# Row Average <u>Bla</u> Column # Column # 10/AIG# Вом Ачетаде #DIA\01 Row Average Section \$0/0Z/6 Date 38 020944 tinU 8 IlsW

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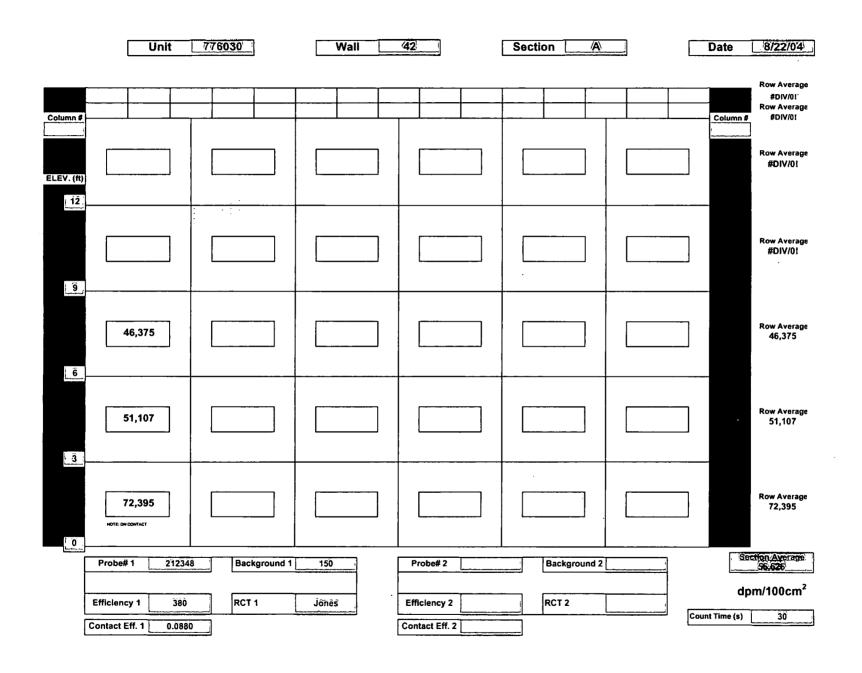
| | Unit | 776030 | Wall | 39 | Section A | D | ate 8/27/04 |
|------------|---------------|----------------|-----------|----------------|--------------|---------|--|
| Column # | | | | | | | Row Average #DIV/01 Row Average Column # #DIV/01 |
| ELEV. (ft) | | | | | | | Row Average #DIV/0! |
| 9 | | 11.7 | | | | | Row Average #DIV/0! |
| 6 | | | 34,680 | 12,844 | | | Row Average 23,762 |
| 3 | | | 38,533 | 30,826 | | | Row Average 34,680 |
| 0 | | | 8,064 | 14,977 | | | Row Average 11,520 |
| Prob | e# 1 19975 | 7 Background 1 | 130 | Probe# 2 | Background 2 | | Section/Average |
| Efficie | ncy 1 280 | RCT 1 | D.Lamford | Efficiency 2 | RCT 2 | Count | dpm/100cm ² |
| Contac | Eff. 1 0.0790 | | | Contact Eff. 2 | | - Count | |



Date 8/22/04 Section/Average 17,365 Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/0! Row Average #DIV/0! Row Average 19,875 Row Average 27,407 Row Average 9,464 dpm/100cm² Count Time (s) 30 Column # Section A Background 2 RCT 2 Contact Eff. 2 Efficiency 2 Probe# 2 Wall 45 29,339 26,890 9,464 NOTE. ON CONTACT Jones 150 Background 1 RCT 1 7,571 Unit 776030 Probe#1 212348 Contact Eff. 1 0.0880 380 27,924 10,411 11,357 Efficiency 1 MOTE ON CONTACT ELEV. (ft) 12 6 (9) (6) 0

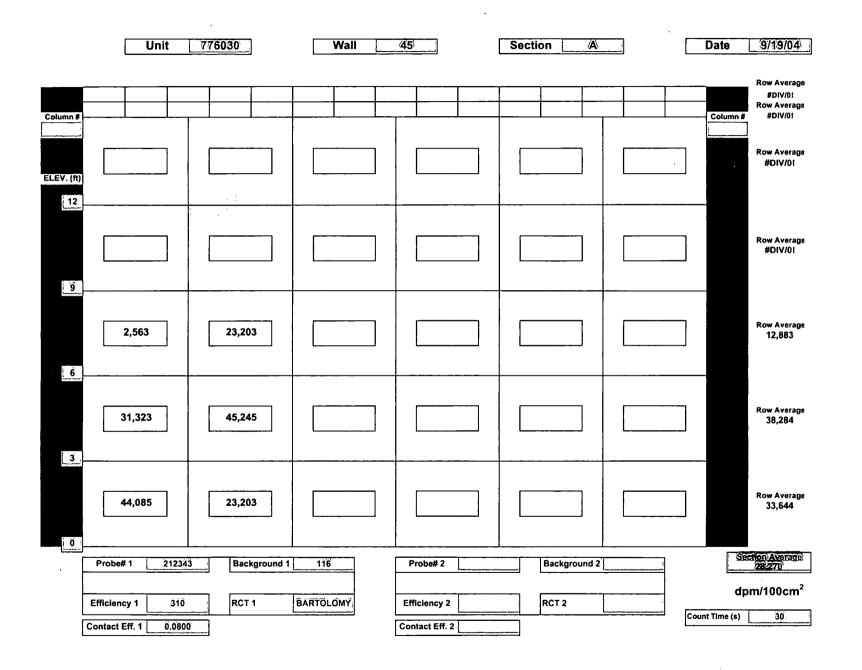
71

1



| | Row Average #DIV/01 Row Average #DIV/01 | Row Average #DIV/01 | Row Average #DIV/0! | Row Average 32,178 | Row Average 27,446 | Row Average 36,198 | dpm/100cm² |
|-----------|---|------------------------|------------------------|-----------------------|-----------------------|-----------------------|---|
| Date | | | | 59,625 | 34,071 | 50,677 | d Count Time (s) |
| Section A | | | | 4,732 | 20,821 | 21,719 | Background 2 |
| 43 | | | | | | | Probe#2 Efficiency 2 Contact Eff. 2 |
| Wall | | | | | | | 1 150 Jones |
| 776030 | | | | | | | Background 1 |
| Unit | | | | | | | Probe#1 212348 Efficiency 1 380 Contact Eff. 1 0.0880 |

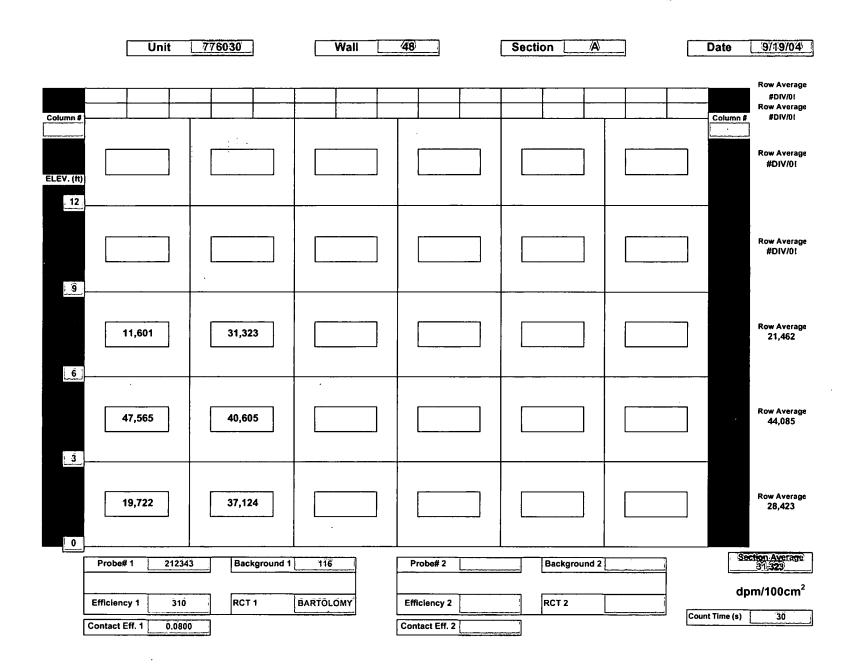
| | Unit | 776030 | Wall | 44 | Section A | | Date 8/22/04 |
|--------------|---------------------------|----------------|------------------------|----------------|--------------|----------|--|
| Column# | | | | | | | Row Average #DIV/01 Row Average Column # #DIV/01 |
| ELEV. (ft) | | | | | | | Row Average #DIV/01 |
| 12 | | | | | | | Row Average #DIV/01 |
| <u>. 6</u> . | 2,378 | 2,378 | 22,714 | | | | Row Average 9,157 |
| 3 | 12,303 | | 29,339 | | | | Row Average 20,821 |
| 0 | 35,163 NOTE ON CONTACT | | 29,992 NOTE ON CONTACT | | | | Row Average 32,578 |
| | Probe# 1 21234 | 8 Background 1 | 150 | Probe# 2 | Background 2 | | Section Average 19,181 |
| | Efficiency 1 380 | RCT 1 | Jönes | Efficiency 2 | RCT 2 | | dpm/100cm ² |
| [| Contact Eff. 1 0.0880 | <u> </u> | | Contact Eff. 2 | | <u> </u> | on time (s) 30 |

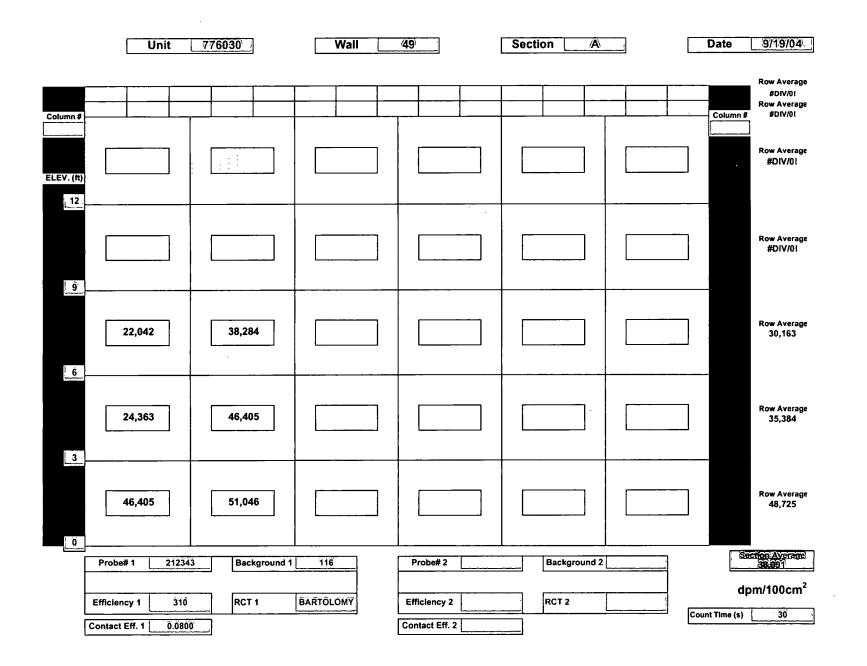


Contact Eff. 2 0080.0 Contact Eff. 1 30 Count Time (s) RCT 2 Efficiency 2 **YMOJOTRAB** F T DA 310 Efficiency 1 qbw\100cm⁵ Section Average Background 1 212343 Background 2 Probe# 2 911 Probe# 1 91/8'99 844,83 42'542 Row Average 3 901'55 749,29 41,565 Row Average 9 34,224 38,284 591,05 Row Average 6 10/A1G# Row Average 15 ELEV. (ft) 10/AIG# Row Average Column # Column # #DIA\01 Row Average 10/AIG# Row Average P.0/6/1/6 Date Section .020924 tinU 97 Mall

3

| Unit [| 776030 Wall | 47 | Section (A) | Date 9/19/04 |
|-----------------------|------------------|----------------|--------------|---------------------------------------|
| mn # | | | | Row Average #DIV/01 Column # #DIV/01 |
| 7. (ft) | | | | Row Average #DIV/0! |
| 9 | | | | Row Avera #DIV/0! |
| 25,523 | 20,882 | | | Row Average 23,203 |
| 69,608 | 38,284 | | | Row Avera 53,946 |
| 46,405 | 39,444 | | | Row Averag 42,925 |
| Probe# 1 212343 | Background 1 116 | Probe# 2 | Background 2 | Section Average 40,024 |
| Efficiency 1 310 | RCT 1 BARTOLOMY | Efficiency 2 | RCT 2 | dpm/100cm |
| Contact Eff. 1 0.0800 | | Contact Eff. 2 | | |





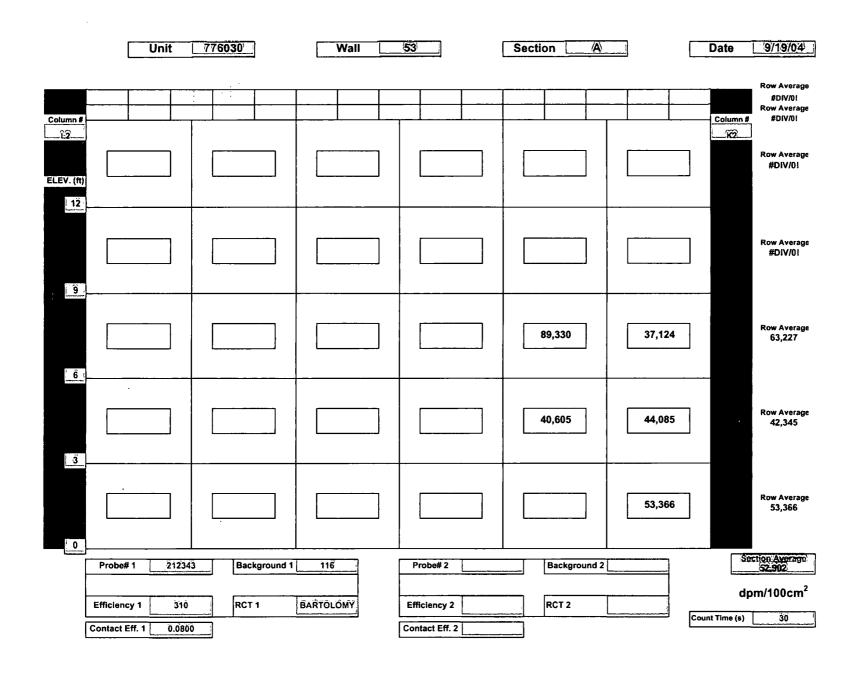
| | Unit _ | 776030 | Wall | 50 | Section A | Date | 9/19/04 |
|------------|--------------------|--------------|-----------|----------------|--------------|--------------------|--|
| Column # | | | | | | Column # | Row Average #DIV/0! Row Average #DIV/0! |
| ELEV. (ft) | | | | | | | Row Average #DIV/0! |
| [9] | | | | | | | Row Average #DIV/01 |
| 6 | 15,082 | 33,644 | | | | | Row Average 24,363 |
| [3 | 37,124 | 40,605 | | | | | Row Average 38,864 |
| | 42,925 | 24,363 | | | | | Row Average 33,644 |
| | obe# 1 212343 | Background 1 | 116 | Probe# 2 | Background 2 | | tion Averago 32,290 |
| Effic | clency 1 310 | RCT 1 | BARTOLOMY | Efficiency 2 | RCT 2 | | m/100cm ² |
| Cont | tact Eff. 1 0.0800 | | | Contact Eff. 2 | | Count Time (s) | 30 |

| | Unit | 776030 | Wall | 51 | Section A | | Date 9/19/04 |
|------------|--------------------|-----------------|-----------|----------------|--------------|-------|--|
| Column # | | | | | | | Row Average #DIV/0I Row Average Column # #DIV/01 |
| ELEV. (ft) | | | | | | | Row Average #DIV/0! |
| <u>(</u> 9 | | | | | | | Row Average #DIV/01 |
| 6 | 29,003 | 33,644 | | | | | Row Average 31,323 |
| 3 | 64,967 | 46,405 | | | | | Row Average 55,686 |
| 0 | 22,042 | 46,405 | | | | | Row Average 34,224 |
| | Probe# 1 212 | 2343 Background | 1 116 | Probe# 2 | Background 2 | | Section Average 40.417 |
| | Efficiency 1 3 | 10 RCT 1 | BARTOLOMY | Efficiency 2 | RCT 2 | | dpm/100cm ² |
| | Contact Eff. 1 0.0 | 0800 | | Contact Eff. 2 | | Count | Time (s) 30 |

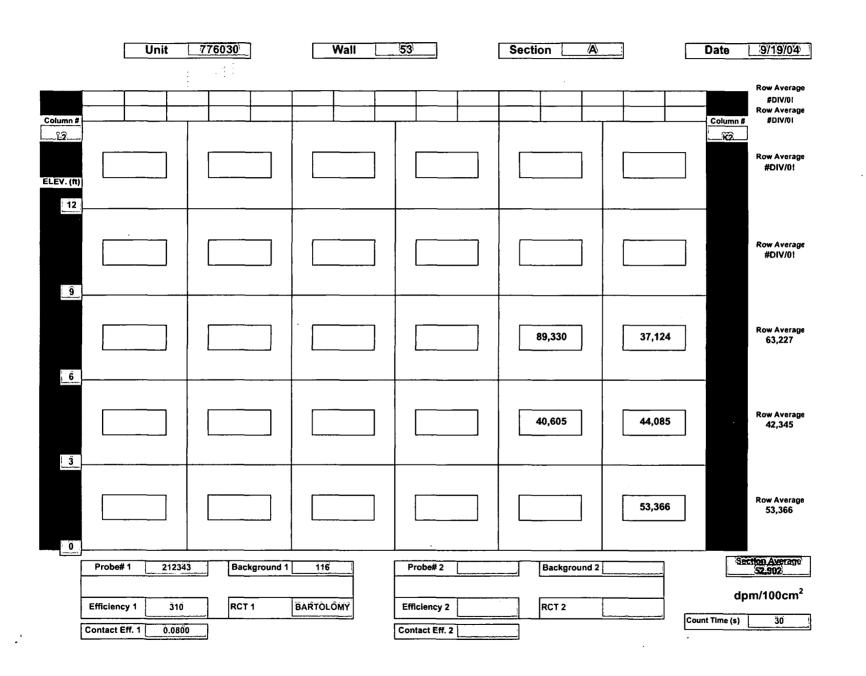
Date 9/19/04 Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/01 Row Average #DIV/01 Row Average 16,822 Row Average 46,405 Row Average 31,904 dpm/100cm² Section Averago 31,7710 8 Count Time (s) Section A Background 2 RCT 2 Contact Eff. 2 Efficiency 2 Probe# 2 Wall 52 BARTOLOMY 116 Background 1 RCT 1 39,444 35,964 5,801 Unit 776030 212343 0.0800 310 27,843 27,843 53,366 Contact Eff. 1 Efficiency 1 Probe#1 ELEV. (ft) (63) 12 6 9 0

(.

| Date 9/19/04 | Row Average #DIV/0! Row Average #DIV/0! Row Average #DIV/0! | Row Average #DIV/0! | Row Average 63,227 | Row Average 42,345 | Row Average 53,366 | Secretor/Ayerate dpm/100cm² |
|---------------|---|------------------------|-----------------------|-----------------------|-----------------------|--|
| Da | 8] | | 37,124 | 44,085 | 53,366 | d Count Time (s) |
| Section (A) | | | 89,330 | 40,605 | | Background 2 |
| 53 | | | | | | Probe# 2 Efficiency 2 Contact Eff. 2 |
| Wall | | | | | | 1 116 BARTOLOMY |
| 776030 | | | | | | 143 Background 1 0 RCT 1 |
| Unit | Darmn # 12 12 12 12 12 12 12 13 14 15 15 15 15 15 15 15 | | | · | :0 | Probe# 1 212343 Efficiency 1 310 Contact Eff. 1 0.0800 |



Row Average #DIV/01 Row Average #DIV/01 Date 9/19/04 Row Average #DIV/0! Row Average #DIV/01 Row Average 63,227 Row Average 53,366 Row Average 42,345 Section Average dpm/100cm² Count Time (s) 30 (2) 37,124 44,085 53,366 Background 2 € 89,330 40,605 RCT 2 Section Contact Eff. 2 Probe# 2 Efficiency 2 23 Wall BARTOLOMY Background 1 116 RCT 1 Unit 776030 Probe# 1 212343 0.0800 310 Contact Eff. 1 Efficiency 1 6 8 12 (و ELEV. (ft) 0 Column # 13



| Sample Location | Nal Activity Measurements | | | | | | | |
|------------------------|---------------------------|---------|---------|---------------|----------------------------|--|--|--|
| Sample Location Number | Measurement Used | Comment | Surface | Coating | (dpm/100 cm ²) | | | |
| 1 | Sodium lodide | N/A | wall | Thin/No Paint | 195,010 | | | |
| 2 | Sodium lodide | N/A | Floor | Thin/No Paint | 45,676 | | | |
| 3 | Sodium lodide | N/A | Floor | Thin/No Paint | 35,515 | | | |
| 4 | Sodium lodide | N/A | Floor | Thin/No Paint | 5,118 | | | |
| 5 | Sodium Iodide | N/A | wali | Thin/No Paint | 5,118 | | | |
| 6 | Sodium Iodide | N/A | wall | Thin/No Paint | 9,525 | | | |
| 7 | Sodium Iodide | N/A | Floor | Thin/No Paint | 5,118 | | | |
| 8 | Sodium Iodide | N/A | Floor | Thin/No Paint | 6,620 | | | |
| 9 | Sodium Iodide | N/A | Floor | Thin/No Paint | 9,988 | | | |
| 10 | Sodium lodide | N/A | wall | Thin/No Paint | 7,907 | | | |
| 11 | Sodium Iodide | N/A | wall | Thin/No Paint | 49,213 | | | |
| 12 | Sodium lodide | N/A | wall | Thin/No Paint | 52,519 | | | |
| 13 | Sodium Iodide | N/A | wall | Thin/No Paint | 4,586 | | | |
| 14 | Sodium lodide | N/A | Floor | Thin/No Paint | 43,701 | | | |
| 15 | Sodium Iodide | N/A | Floor | Thin/No Paint | 23,202 | | | |
| 16 | Sodium Iodide | N/A | Floor | Thin/No Paint | 4,586 | | | |
| 17 | Sodium Iodide | N/A | wall | Thin/No Paint | 103,212 | | | |
| 18 | Sodium Iodide | N/A | wall | Thin/No Paint | 148,888 | | | |
| 19 | Sodium lodide | N/A | wall | Thin/No Paint | 58,265 | | | |
| 20 | Sodium Iodide | N/A | wall | Thin/No Paint | 10,717 | | | |
| 21 | Sodium Iodide | N/A | wall | Thin/No Paint | 4,586 | | | |
| 22 | Sodium Iodide | N/A | wall | Thin/No Paint | 86,353 | | | |
| 23 | Sodium lodide | N/A | wall | Thin/No Paint | 22,266 | | | |
| 24 | Sodium Iodide | N/A | Ceiling | Thin/No Paint | 4,586 | | | |
| 25 | Sodium lodide | N/A | Ceiling | Thin/No Paint | 4,586 | | | |
| 26 | Sodium Iodide | N/A | Ceiling | Thin/No Paint | 4,586 | | | |
| 27 | Sodium Iodide | N/A | Ceiling | Thin/No Paint | 4,586 | | | |
| 28 | Sodium lodide | N/A | Ceiling | Thin/No Paint | 4,586 | | | |
| 29 | Sodium Iodide | N/A | wall | Thin/No Paint | 4,399 | | | |
| 30 | Sodium Iodide | N/A | Ceiling | Thin/No Paint | 4,586 | | | |
| | | • | | | | | | |
| | | | | MIN | 4,399 | | | |
| | | | | MAX | 195,010 | | | |
| | | | | AVERAGE | 32,320 | | | |
| | | | | SD | 46,436 | | | |
| | | | | | | | | |

Data and Sodium Iodide Instrument Information

| Survey Area: | 2nd Floor | Survey Unit: | 776030 | Survey Date(s): | 12/11/04 |
|--------------|-----------|--------------|--------|-----------------|----------|

Instrument Specifications

| instrument# | 1 | 2 |
|-----------------------|---------------|---------------|
| Meter Model: | Ludlum 2350-1 | Ludlum 2350-1 |
| Meter Serial #: | 203449 | 201199 |
| Detector Model: | Bicron G-5 | Ludlum 44-17 |
| Detector #: | B940T | 199764 |
| Detector Size (cm²): | 125 | 17.8 |
| Calibration Due Date: | 6/8/05 | 6/9/05 |
| Count Time (min) | 5 | 5 |
| Contact Efficiency | 6.05% | 8.80% |

Background (Gross)

| Instrument# | 1 | 2 |
|----------------------|-------|-----|
| Gamma (Ceilings) | N/A | 359 |
| Gamma (Floors) | 10423 | N/A |
| Gamma (Block Walls) | N/A | 748 |
| Gamma (Solid Walls) | N/A | N/A |

Background (cpm)

| Instrument # | 1 | 2 |
|----------------------|--------|-------|
| Gamma (Ceilings) | N/A | 71.8 |
| Gamma (Floors) | 2084.6 | N/A |
| Gamma (Block Walls) | N/A | 149.6 |
| Gamma (Metal Walls) | N/A | N/A |

Efficiencies (cpm/dpm)

| Instrument # | 1 | 2 |
|---------------|-------|-------|
| Thin/No Paint | 0.060 | 0.087 |
| Ероху | 0.049 | 0.071 |
| Other | 0.057 | 0.084 |

Ratio Used

| D | 0.4 |
|-----------------|-----|
| IPu to Am - 241 | 0.1 |
| | |

Comments

In cases where the critical level is greater than the calculated dpm/100cm2, the critical level will be used for statistical analysis.

Count Times for backgrounds and samples are equal.

Attenuation Factors: Based on observation of Walls and Ceilings. Epoxy on Floor determined bothings.

| Coatings | Thickness (inches) |
|---------------|-----------------------|
| Thin/No Paint | 0.007 |
| Ероху | 0.250 |
| Other | 0.06 |

Total Activity Estimates Using Sodium Iodide Instrume

| | الأنائي والمستحدد والمتناث كالمستحد | | | |
|---------------|-------------------------------------|--------------|------------|---------------------|
| 1 |) A 1 E 1 | la | | 40144104 |
| Survey Area: | 2nd Lloor | ICHMAN LIMIO | : 776N2N I | 1 12/11/04 1 |
| IODIVEV AIEA. | L ZIIU FIUUI | Survey Unit: | 776030 l | l 12/11/04 i |
| 100 | | | | |
| | | | | |

| | | | Γ | Total Alpha |
|-------------------|---------|--------------|--------------|-------------|
| Sample Location # | RCT ID# | Instrument # | Gross Counts | (dpm/cm²) |
| 1 | 1 | 1 | 19472 | 195,010 |
| 2 | 2 | 2 | 1,187 | 45,676 |
| 3 | 1 | 1 | 12,071 | 35,515 |
| 4 | 1 | 1 | 9740 | 5,118 |
| 5 | 2 | 1 | 9618 | 5,118 |
| 6 | 1 | 1 | 10865 | 9,525 |
| 7 | 1 | 1 | 8,629 | 5,118 |
| . 8 | 2 | 2 | 736 | 6,620 |
| 9 | 2 | 2 | 844 | 9,988 |
| 10 | 2 | 2 | 824 | 7,907 |
| 11 | 2 | 2 | 1221 | 49,213 |
| 12 | 1 | 1 | 12860 | 52,519 |
| 13 | 2 | 2 | 324 | 4,586 |
| 14 | 1 | 2 | 1,089 | 43,701 |
| 15 | 2 | 2 | 971 | 23,202 |
| 16 | 1 | 2 | 307 | 4,586 |
| 17 | 2 | 2 | 1740 | 103,212 |
| 18 | 2 | 2 | 2179 | 148,888 |
| 19 | 2 | 2 | 1308 | 58,265 |
| 20 | 1 | 2 | 851 | 10,717 |
| 21 | 2 | 2 | 362 | 4,586 |
| 22 | 1 | 1 | 14430 | 86,353 |
| 23 | 2 | 2 | 962 | 22,266 |
| 24 | 1 | 2 | 269 | 4,586 |
| 25 | 2 | 2 | 293 | 4,586 |
| 26 | 2 | 2 | 322 | 4,586 |
| 27 | 1 | 2 | 359 | 4,586 |
| 28 | 1 | 2 | 307 | 4,586 |
| 29 | NA | NA | NA | NA |
| 30 | 1 | 2 | 316 | 4,586 |

Estimate Data and Sodium Iodide Instrument Information

| The second secon | | | | | |
|--|------------|--------------|--------|------------------|----------|
| Survey Area: | 2nd floor | Survey Unit: | 776030 | Survey Date(s): | 12/19/04 |
| ou. rey rireu. | 2114 11001 | ou. voy o | 1.0000 | Journey Date(3). | 12/13/07 |

Instrument Specifications

| mst differ opecifications | | | | |
|---------------------------|---------------|-----|--|--|
| Instrument # | 1 | 2 | | |
| Meter Model: | Ludlum 2350-1 | N/A | | |
| Meter Serial #: | 201199 | N/A | | |
| Detector Model: | Ludlum 44-17 | N/A | | |
| Detector #: | 15156 | N/A | | |
| Detector Size (cm²): | 17.8 | N/A | | |
| Calibration Due Date: | 6/9/05 | N/A | | |
| Count Time (min) | 5 | N/A | | |
| Contact Efficiency | 7.90% | N/A | | |

Background (Gross)

| Instrument# | 1 | . 2 |
|------------------|-----|-----|
| Gamma (Ceilings) | 266 | N/A |
| Gamma (Floors) | N/A | N/A |
| Gamma (Walls) | 266 | N/A |

Background (cpm)

| Instrument # | 1 | 2 |
|------------------|------|-----|
| Gamma (Ceilings) | 53.2 | N/A |
| Gamma (Floors) | N/A | N/A |
| Gamma (Walls) | 53.2 | N/A |

Efficiencies (cpm/dpm)

| Instrument # | 1 | 2 |
|---------------|-------|-----|
| Thin/No Paint | 0.078 | N/A |
| Ероху | 0.075 | N/A |
| Other | N/A | N/A |

Ratio Used

| the state of the s | |
|--|-----|
| Pu to Am - 241 | 8.1 |
| | |

Comments

In cases where the critical level is greater than the calculated dpm/100cm2, the critical level will be used for statistical analysis.

Count Times for backgrounds and samples are equal.

Attenuation Factors: Based on observation of Walls and Ceilings. Contamination assumed to be under thin layer of fixative on all surfaces

| Coatings | Thickness (inches) |
|---------------|-----------------------|
| Thin/No Paint | 0.008 |
| Ероху | 0.060 |
| Other | N/A |

| Total Activity Using Sodium lodide Instruments (Cont'c | | | | |
|--|-----------|--------------|--------|----------|
| | | | | |
| Survey Area: | 2nd floor | Survey Unit: | 776030 | 12/19/04 |

| O 1 1 11 11 11 11 11 11 11 11 11 11 11 1 | 507.15.# | | | Total Alpha (dpm/100cm²) | | |
|--|----------|--------------|--------------|-----------------------------|--|--|
| Sample Location # | RCT ID# | Instrument # | Gross Counts | • | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | · N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| . N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | | |
| 29 | 1 | 1 | 266 | 4,399 | | |
| N/A | N/A | N/A | N/A | N/A | | |

Removable Activity

| Survey | Area: | 2nd Floor | Surve | y Unit: | 776030 | | | |
|---|---------------|---------------|-------------|------------|----------------------------|--|--|--|
| Dates Counted: | 12/11/04 | | | | | | | |
| A priori MDA: | 16 | | | | | | | |
| Efficiency (c/d) | 0.333 | | | | | | | |
| , | 0.000 | <u> </u> | | | | | | |
| | | Smear Results | | | | | | |
| Smear Location | DCT ID # | | C | (4.00 - 2) | | | | |
| Number | RCT ID# | Serial Number | Gross (cpm) | Bkg. | (dpm/100 cm ²) | | | |
| 1 2 | 2 | 1 2 | 1 | 0.1 | 3 | | | |
| 3 | 1 | 4 | 1 | 0.6 | 2 | | | |
| 4 | 2 | 1 | 0 | 0.6 | 0 | | | |
| 5 | 1 | 3 | 0 | 0.1 | -1 | | | |
| 6 | 2 | 3 | 0 | 0.2 | -1 | | | |
| 7 | 1 | 1 | 0 | 0.2 | 0 | | | |
| 8 | 2 | 2 | 0 | 0.1 | <u>-1</u> | | | |
| 9 | 1 | 4 | 0 | 0.6 | -2 | | | |
| 10 | 2 | 2 | 0 | 0.2 | -1 | | | |
| 11 | <u></u> | 1 | 0 | 0.1 | Ö | | | |
| 12 | 2 | 4 | 0 | 0.6 | -2 | | | |
| 13 | <u>_</u> 1 | 1 | 1 | 0.1 | 3 | | | |
| · 14 | 2 | 4 | 2 | 0.6 | 4 | | | |
| 15 | 1 | 1 | 0 | 0.1 | 0 | | | |
| 16 | 2 | 1 | 0 | 0.1 | 0 | | | |
| 17 | 1 | 3 | 0 | 0.2 | -1 | | | |
| 18 | 2 | 2 | 1 | 0.2 | 2 | | | |
| 19 | 1 | 2 | 0 | 0.2 | -1 | | | |
| 20 | 2 | 3 | 0 | 0.2 | -1 | | | |
| 21 | 1 | 2 | 0 | 0.2 | -1 | | | |
| 22 | 2 | 4 | 1 | 0.6 | 1 | | | |
| 23 | 1 | 3 | 1 | 0.2 | 2 | | | |
| 24 | 2 | 3 | 0 | 0.2 | -1 | | | |
| 25 | 1 | 4 | 1 | 0.6 | 1 | | | |
| 26 | 2 | 1 | 0 | 0.1 | 0 | | | |
| 27 | 1 | 4 | 1 | 0.6 | 1 . | | | |
| 28 | 2 | 2 | 0 | 0.2 | -1 | | | |
| 29 | 1 | 3 2 | 1 | 0.1 | 3 | | | |
| 30 | 2 | 2 | 0 | 0.2 | -1 | | | |
| | | | | MIN | -1.8 | | | |
| | | | | MAX | 4.2 | | | |
| | | | | MEAN | 0.4 | | | |
| | | | | SD | 1.5 | | | |

Total Surface Activity

| Survey | Area: | 2nd Floor | Survey Un | | | | |
|-------------------|---------|-----------|-----------------|-------------|-----------|-----------------|---------------|
| Meter N | | | NE Electra w/ [| | 1 | Dates Counted: | 8/9, 12/18/04 |
| instrument #: | | 4172 | 2405 | 1246 | n/a | A priori MDA: | 94 |
| Cal. Due Date: | | 1/16/05 | 3/20/05 | 1/26/05 n/a | | Avg. Local Bkgd | 4.6 |
| Efficiency (c/d): | | 0.221 | 0.227 | 0.220 | n/a | Avg. Efficiency | 0.220 |
| Sample | | | | 0.220 | 1 | Aug. Emoichey | 0.220 |
| Location # | RCT ID# | Inst.# | Instrument (c | pm) Local B | kgd (cpm) | (dpm/100 | cm²) |
| 1 | 1 | 4172 | 60 | | 5.0 | 250.0 |) |
| 2 | 2 | 2405 | 10 | | 4.0 | 27.3 | |
| 3 | 1 | 4172 | 17 | | 5.0 | 54.5 | |
| 4 | 2 | 2405 | 31 | | 6.0 | 113.6 | |
| 5 | 1 | 4172 | 63 | | 1.0 | 281.8 | |
| 6 | 2 | 2405 | 228 | | 9.0 | 995.5 | <u> </u> |
| 7 | 1 | 4172 | 85 | | 3.0 | 372.7 | , |
| 8 | 2 | 2405 | 10 | | 7.0 | 13.6 | |
| 9 | 11 | 4172 | 14 | ; | 3.0 | 50.0 | |
| 10 | 2 | 2405 | 0 | | 0.0 | 0.0 | |
| 11 | 1 | 4172 | 9 | | 4.0 | 22.7 | |
| 12 | 2 | 2405 | 22 | | 1.0 | 95.5 | |
| 13 | 1 | 4172 | 6 | | 3.0 | 13.6 | |
| 14 | 2 | 2405 | 1 | | 3.0 | -9.1 | |
| 15 | 1 | 4172 | 16 | | 7.0 | 40.9 | |
| 16 | 2 | 4172 | 9 | | 5.0 | 18.2 | |
| 17 | 11 | 2405 | 1518 | | 3.0 | 6886.4 | |
| 18 | 2 | 4172 | 12_ | (| 0.0 | 54.5 | |
| 19 | 1 | 2405 | 8 | | 5.0 | 13.6 | |
| 20 | 2 | 4172 | 13 | | 4.0 | 40.9 | |
| 21 | 1 | 2405 | 6 | ; | 3.0 | 13.6 | |
| 22 | 2 | 4172 | 55 | | 5.0 | 227.3 | |
| 23 | 11 | 2405 | 7 | | 9.0 | -9.1 | |
| 24 | 2 | 4172 | 5 | | 1.0 | 4.5 | |
| 25 | 1 | 2405 | 26 | | 2.0 | 109.1 | |
| 26 | 2 | 4172 | 9 | | 3.0 | 27.3 | |
| 27 | 1 | 2405 | 10 | | 1.0 | 29.1 | |
| 28 | 2 | 4172 | 18 | 1 | 7.0 | 4.5 | - |
| 29 | 1 | 1246 | 2 | | 2.0 | 0.0 | |
| 30 | 2 | 4172 | 8 | 1 | 0.0 | -9.1 | |
| | | | | | MIN | -9.1 | |
| | | | | | MAX | 6886.4 | |
| | | | | | MEAN | 324.5 | |
| | | | | | SD | 1254. | 5 |

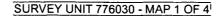
Survey Area: 2nd Floor

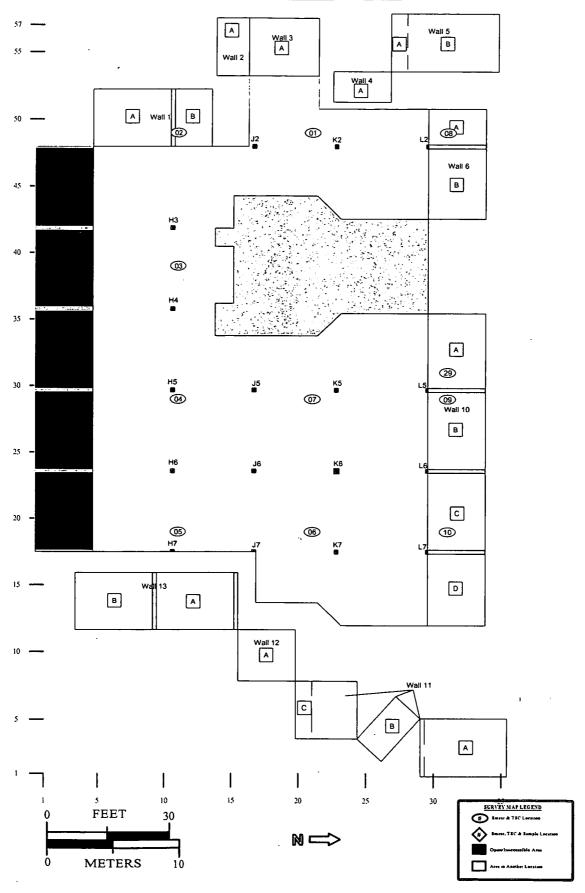
Classification: NA

rea: 2nd Floor Survey Unit: 776030 Classific Building: 776 Survey Unit Description: Rooms 201, 206, 207, 213, 220, 227

Total Floor Area: 948 sq. m

Total Area: 3008 sq. m Random Start Grid Size: 10 x 10 sq. m





Survey Area: 2nd Floor

Survey Unit: 776030

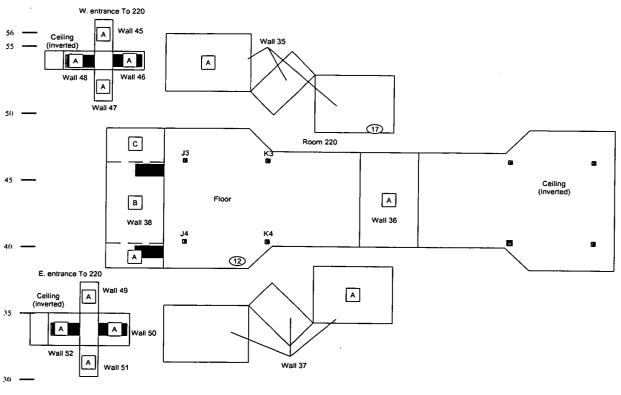
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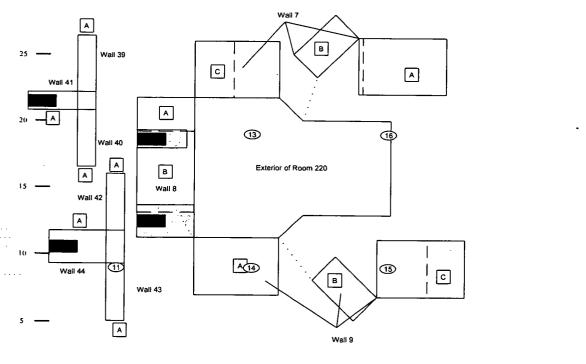
Building: 707 Survey Unit Description: Rooms 201, 206, 207, 213, 220, 227

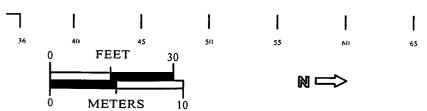
Total Floor Area: 948 sq. m

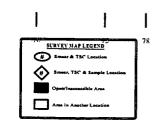
Total Area: 3008 sq. m Random Start Grid Size: 10 x 10 sq. m

SURVEY UNIT 776030 - MAP 2 OF 4









Survey Area: 2nd Floor

Survey Unit: 776030 Building: 776

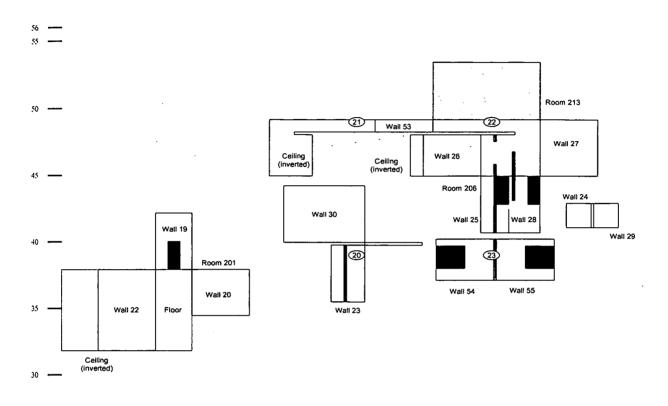
Classification: NA

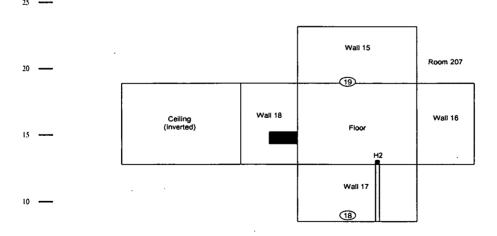
Survey Unit Description: Rooms 201, 206, 207,213, 220, 227

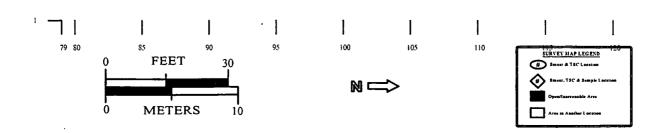
Total Floor Area: 948 sq. m

Total Area: 3008 sq. m Random Start Grid Size: 10 x 10 sq. m

SURVEY UNIT 776030 - MAP 3 OF 4;







Survey Area: 2nd Floor

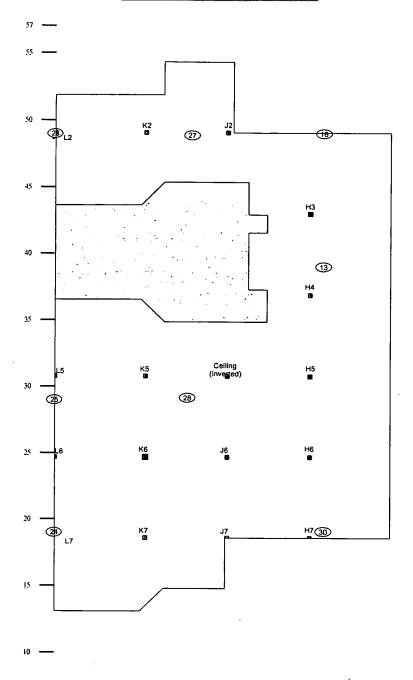
Classification: NA

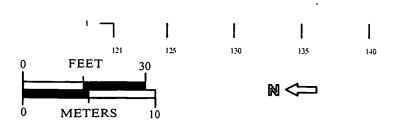
a: 2nd Floor Survey Unit: 776030 Classi Building: 776 Survey Unit Description: Rooms 201, 206, 207, 213, 227

Total Floor Area: 948 sq. m

Total Area: 3008 sq. m Random Start Grid Size: 10 x 10 sq. m

SURVEY UNIT 776030 - MAP 4 OF 4:







| ſ | | | | | <u> </u> | | ļ | <u> </u> | | |
|----------|-----------|-------|-------|-------|----------------|--------|-----------------|----------|-------|----------|
| | | | (116) | (117) | 44 | (S+I) | | | | |
| | | | (112) | (118) | (143) | (146) | | | , | <u> </u> |
| | | | (114) | (119) | (142) | (147) | (170) | (171) | 194 | (195) |
| | | | (113) | (120) | (141) | (148) | (169) | (172) | (193) | (196) |
| | | (112) | (121) | (140) | (149) | (168) | (173) | (192) | (197) | |
| | | | | (122) | (139) | (150) | (167) |) | (191) | (198) |
| | | | (110) | (123) | (138) | (151) | (166) | (175) | (190) | (199) |
| (| 90 100 | | (109) | (124) | 137 | (152A) | (165A) | (176) | (189) | (200) |
| | | | (108) | (125) | A.L.—J | (153) | (164A) | (177) | (188) | (201) |
| | | | (107) | (126) | (35) | (154) | A/163 (163A) | (178) | (187) | 3 (202) |
| | | | (106) | (127) | (34) (134A) | (155A | 162A) | (179) | (18) | (20) |
| | | | (105) | (128) | (133) | (156) | 161 | (180) | (185) | (204) |
| | | | (104) | (129) |](132) | (157) | (160) | (181) | (184) | (205) |
| | | 9 | | (130) | (131) | (158) | (159) | (182) | (183) | (206) |
| ୍ ବ୍ର | , | | | | | | | | | |

